

19980925.qrp v01_n225.qrs.980925

Date: Fri, 25 Sep 1998 19:03:20 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1225

QRP-L Digest 1225

Topics covered in this issue include:

- 1) [20893] towns and states
by talljazz@teleport.com (Dan Presley)
- 2) [20894] Special Event: To celebrate the history of amateur radio
by "Robert Roach" <KE4Q0K@worldnet.att.net>
- 3) [20895] Hurricane net frequencies
by jaywa5whn@juno.com
- 4) [20896] Radiokit Revisited, cont'd.
by Pete Hoover <w6zh@ix.netcom.com>
- 5) [20897] Re: Need Manual for AEA ck-1 Keyer
by SMurph555@aol.com
- 6) [20898] RE: Differences on CW vs Single tone SSB?
by Denton Bramwell W7DB <Denton@Bramwell.Org>
- 7) [20899] Re: Radiokit revisited
by "Ken Hanks" <KenNFD@ibm.net>
- 8) [20900] Re: Radiokit revisited
by "Walter Dufrain" <walter@inlink.com>
- 9) [20901] Re: Dual Gate GaAsFETs - Inexpensive
by Luke Stras <stras@ecf.utoronto.ca>
- 10) [20902] more towns and states.
by Goemans <jgoemans@facstaff.wisc.edu>
- 11) [20903] Re: Radio Shack DX394 closeout
by BADDBadger@aol.com
- 12) [20904] Re: Dual Gate GaAsFETs - Inexpensive
by Chris Trask <ctrask@primenet.com>
- 13) [20905] Re: Differences on CW vs Single tone SSB?
by "Roger A. McCarty" <rmccarty@earthlink.net>
- 14) [20906] Re: Radiokit revisited
by w2bj@juno.com (Barry J Minsky)
- 15) [20907] Advice on kits
by kd4pvm@juno.com (Paul W Bridgeman)
- 16) [20908] re: Radiokit revisited
by Tim Ahrens <tahrens@inetport.com>
- 17) [20909] anybody got the OHR-500A yet
by bob evinger <revinger@marshallonline.com>
- 18) [20910] Re: more towns and states.
by "Steve Hurst" <shurst@magiclink.com>
- 19) [20911] Re: Radiokit revisited

- by we6w@juno.com (Ed Loranger)
- 20) [20912] PWM in AM
by Fran Flynn <fflynn@together.net>
 - 21) [20913] Zombie badge info
by Scott Howell <whowell@hq.nasa.gov>
 - 22) [20914] CL1PR medical emergency - update
by Ron Keener <rkeener@realtime.net>
 - 23) [20915] Re: towns and states
by Shephed@aol.com
 - 24) [20916] Re: CL1PR medical emergency - update
by Shephed@aol.com
 - 25) [20917] Re: towns and states
by "Steve Hurst" <shurst@magiclink.com>
 - 26) [20918] LDG Tuner - HELP!
by k7sz@epix.net
 - 27) [20919] FOX: OFFICIAL FOXHUNT RULES AND SCHEDULE v1.00
by "Paul R. Valko" <prvalko@oakland.edu>
 - 28) [20920] CQ HAWAII, CQ HAWAII for WAS
by "Kevin F. Glynn" <kfglynn@prodigy.net>
 - 29) [20921] FOX: N/T+ Foxii Wanted!!!
by "Paul R. Valko" <prvalko@oakland.edu>
 - 30) [20922] Re: PWM in AM
by Fran Flynn <fflynn@together.net>
 - 31) [20923] RE: LDG Tuner - HELP!
by Denton Bramwell W7DB <Denton@Bramwell.Org>
 - 32) [20924] towns and states potential problem?
by Ab7wy@aol.com
 - 33) [20925] Opto-regen really fly?
by mnhopkins@juno.com (Michael N Hopkins)
 - 34) [20926] Re: towns and states potential problem?
by Roger Hightower <n7kt@earthlink.net>
 - 35) [20927] Norcal Zombies - Origin
by Dave Fifield <fifield@pacbell.net>
 - 36) [20928] Re: Differences on CW vs Single tone SSB?
by RABRUNER@aol.com
 - 37) [20929] Re: PWM in AM
by RABRUNER@aol.com
 - 38) [20930] RE: How Rare is Delaware?
by "Harry, WA3PTG" <hhurst@delaware.infi.net>
 - 39) [20931] Re: Advice on kits
by "david r" <elbc@pivot.net>
 - 40) [20932] FOX: Split Operation
by "Paul R. Valko" <prvalko@oakland.edu>
 - 41) [20933] STAMP
by Dave Marling <dbm@klis.com>
 - 42) [20934] Help w/QL Mailing Labels
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
 - 43) [20935] Re: WAS WEEKEND (Another RI option)

by "James Apple" <wb1dog@hotmail.com>
44) [20936] Radiokit Caveat Emptor
by Jess Gypin <jessqrp@concentric.net>
45) [20937] Bulbs
by "Bryan Turner" <turnerw@email.uah.edu>
46) [20938] Brilliant Aurura Last Night...
by "KBÿVCC" <kb0vcc@rocketmail.com>
47) [20939] RE: Radiokit revisited
by "Michael St. Angelo" <mstangelo@worldnet.att.net>
48) [20940] Re: Bulbs
by Chris Trask <ctrask@primenet.com>
49) [20941] FOX: Sending your name
by "Paul R. Valko" <prvalko@oakland.edu>
50) [20942] RE: Radiokit revisited
by Sam Billingsley <SBillingsley@usaninc.com>
51) [20943] Re: [19829] Re: DC RCVR Sensitivity Limitations?
by Dan Halbert <halbert@bbn.com>
52) [20944] Re: FOX: Split Operation
by Vic Rosenthal <rakefet@rakefet.com>
53) [20945] Fwd: Brilliant Aurura Last Night...
by W5TB <w5tb@SoftHome.net>
54) [20946] Re: FOX: Split Operation
by "Harvey D. D. Hetland" <n6mm@earthlink.net>
55) [20947] Re: PWM in AM
by KC5TJA <kc5tja@axisinternet.com>
56) [20948] Re: Radiokit Caveat Emptor
by DYARNES@aol.com
57) [20949] Re: ARRL HANDBOOK SIERRA
by Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
58) [20950] Re: STAMP
by Ed Tanton <n4xy@att.net>
59) [20951] Re: Differences on CW vs Single tone SSB?
by Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
60) [20952] Re: Norcal Zombies - Origin
by Bruce Rattray <rattray@gpfn.sk.ca>
61) [20953] CA QSO Party
by k6hcj@juno.com (Marv Fagenson)
62) [20954] Re: Radio Shack DX394 closeout
by Erv <kb8tnq@voyager.net>
63) [20955] Re: Radiokit Caveat Emptor
by Roger Hightower <n7kt@earthlink.net>
64) [20956] EICO reflector
by Ed Tanton <n4xy@att.net>
65) [20957] Baby monitors on 6 meters
by "Conant, Paul" <paul.conant@lmco.com>
66) [20958] Re: Brilliant Aurura Last Night...
by borealis@juno.com (Philip G. Collier)
67) [20959] QRP+ and MFJ-285W speaker mike

by "Jim Knopf" <knopf@halcyon.com>
68) [20960] Re: I feel the need
by Steven Weber <kd1jv@moose.ncia.net>
69) [20961] Noise blanker
by Edson Pereira <ewp@calypso.healthnet.org>
70) [20962] RE: Baby monitors on 6 meters
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
71) [20963] RE: Brilliant Aurura Last Night...
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
72) [20964] Fox: First out of the chute.....Wahoooooooo
by ab5uacw@juno.com (Clifton W Sikes)
73) [20965] Re: FOX: Re: Where's the Fox's???? (fwd)
by Bruce Rattray <rattray@gpfn.sk.ca>
74) [20966] RE: Baby monitors on 6 meters
by "Conant, Paul" <paul.conant@lmco.com>
75) [20967] Re: New QRP Rigs
by aa5yx@juno.com (John Harper AA5YX/2)
76) [20968] Re: STAMP (URL correction)
by "Radman" <radman@best.com>
77) [20969] Re: Baby Monitors
by Chuck Leskie <cleskie@um-f1.umd.umich.edu>
78) [20970] SAMLEX Power Supply Mods
by Larry East <w1hue@amsat.org>
79) [20971] Re: New QRP Rigs
by "Caitlyn M. Martin" <cait.martin@ibm.net>
80) [20972] Fox: First out AB5UA...Wahoooooooo
by "Paul R. Valko" <prvalko@oakland.edu>
81) [20973] Delaware is still on QRP
by bill marsh <k3as@delanet.com>
82) [20974] FOX: Fake Fur!!!
by "Paul R. Valko" <prvalko@oakland.edu>
83) [20975] On-Line MFJ product manuals HTML/PDF.
by Ed Loranger <we6w@qsl.net>
84) [20976] Kenwood 570D - sell or trade
by "Jeff M. Gold" <JGold@tntech.edu>
85) [20977] Why are active mixers so noisy?
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
86) [20978] How to safely sell Equipment
by n2tpa@juno.com (Bill d Lazure)
87) [20979] Re: I feel the need
by nhoop@centuryinter.net (N H)
88) [20980] Re: Baby Monitors
by John Rollins <rexstout@uswest.net>
89) [20981] Tick inside an SST
by "Jim Knopf" <knopf@halcyon.com>

Date: Thu, 24 Sep 1998 16:00:34 +0100
From: talljazz@teleport.com (Dan Presley)
To: qrp-l@Lehigh.EDU
Subject: [20893] towns and states
Message-ID: <v0153052ab2300e9f584b@[204.202.172.111]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I like the concept of "coutries" as names of US towns for a contest. Here in Oregon, We have towns named Lebanon, Madras, Damascus, Norway, Sweden and Denmark!

Dan N7CQR

Date: Thu, 24 Sep 98 19:11:50 PDT
From: "Robert Roach" <KE4QOK@worldnet.att.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, "Knightlights" <klqrp@waterw.com>
Subject: [20894] Special Event: To celebrate the history of amateur radio
Message-ID: <MAPI.Id.0016.004534514f4b20203030303630303036@MAPI.to.RFC822>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"; X-MAPIextension=".TXT"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hello everyone. Here is a chance to work a little CW and get a nice certificate in the process.
Please circulate this information.

The Peninsula Amateur Radio Club (PARC), W4MT
will be conducting a special event station on October 31, 1998

The event will take place on the grounds of The Mariners' Museum in Newport News.
100 Museum Drive, Newport News, VA 23606

Purpose: To celebrate the history and the advances of the radio art from the time of Marconi and the Titanic to the present day. The exhibit, "Titanic: Fortune and Fate" at the museum will close that weekend.

Details:

Time: 1500 10/31/98 to 2100 10/31/98
Modes: CW and Phone

Frequencies: 7.280 14.280 21.380 28.380

QSL information:

Certificate:

Pierre Stokes (WB4PVT), 494 Pamela Drive , Newport News, VA 23601.

Date: Thu, 24 Sep 1998 17:20:03 -0600
From: jaywa5whn@juno.com
To: qrp-1@Lehigh.EDU
Subject: [20895] Hurricane net frequencies
Message-ID: <19980924.172008.4582.0.jaywa5whn@juno.com>

<http://members.ecom.net/~snyder/index.htm>

Just heard C02KK check into the Hurricane Watch Net on 14,325 KHz.

72...Jay, WA5WHN DM65qd Albuquerque,
NM USA

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 24 Sep 1998 18:47:25 -0500 (CDT)
From: Pete Hoover <w6zh@ix.netcom.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [20896] Radiokit Revisited, cont'd.
Message-ID: <3.0.16.19980924164154.2107ba06@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greetings, all:

I, too, bought and built a Radiokit QRP-20 - and wrote about it in the November 1991 issue of "CQ" magazine.

This was not easy kit to complete, and required numerous telephone calls to Radiokit (plus an in-person visit there-to!) and several over-the-phone redesign sessions with Rick Littlefield (most cooperative) to solve some of the instability problems mentioned by others.

The rig does have some short-comings, compared to more recent designs, but functioned very well for its intended purpose - albeit, with some serious redesign/re-packaging required - see the article for the end result.

At last count, I have used the rig in all ten US call areas, Canada, plus a number of overseas locations.

All that being said, I would not encourage anyone to try to build one (lotts reasons already given) nor would I do it again myself!

Pete, W6ZH
San Marino, CA

Date: Thu, 24 Sep 1998 19:49:00 EDT
From: SMurph555@aol.com
To: qrp-1@Lehigh.EDU
Subject: [20897] Re: Need Manual for AEA ck-1 Keyer
Message-ID: <ee70346b.360ada6c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all:

I now have two offers to provide the subject manual. My thanks to K5FO and K8DD. As for my earlier inquiry about charging/restoring old gel cell battery, I successfully managed that, so my thanks to those who responded, VE7LNX, K1TES and KE6RIE. It's now powering an HW-8.

Buoyed by that success, I bought another, er, senior gel cell battery at a recent hamfest. Alas, that one was beyond reclaiming.

I really enjoy the list; great folks to be found here!

72/73
Cal K4JSI

Date: Thu, 24 Sep 1998 18:06:19 +0100
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [20898] RE: Differences on CW vs Single tone SSB?
Message-ID: <5103124387F8D11199DD00A0C925E4B91686@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

Generating an upper sideband signal is functionally just picking up an audio signal and moving it up in the spectrum, i.e., adding some radio frequency to every frequency present in the audio signal. The simplest reversal of this is a direct conversion receiver, which basically heterodynes RF back down to audio.

If you have a pure single tone audio signal, and inject into an ideal SSB transmitter, the result is a pure RF carrier. In an ideal SSB transmitter, injecting a keyed audio tone into the mike jack produces a CW signal that is just exactly like a conventional CW signal. The two are indistinguishable.

Most SSB transmitters are not ideal, and getting a keyed, pure audio tone is not always easy. However, several early transceivers used exactly this scheme to generate CW>

-----Original Message-----

From: Dan Tayloe-P26412 [mailto:Dan_Tayloe-P26412@email.mot.com]
Sent: Thursday, September 24, 1998 10:17 AM
To: Low Power Amateur Radio Discussion
Subject: Differences on CW vs Single tone SSB?

I have been playing with things and was just trying to explain what I am seeing.

Is there any real difference between a CW signal and a single sideband single modulated with a single tone? Take for example a CW carrier at 7.040.600 and a USB signal at 7.040.000 with a 600 Hz tone.

I can see the signals don't at all look the same on the 'scope. CW has a constant signal level, the SSB looks amplitude modulated. However, I was just wondering if they are mathematically (somehow) equivalent?

Do they look the same to a spectrum analyzer?

Thanks for helping me figure this one out!

- Dan Tayloe, N7VE, Phoenix, Az, Az ScQRPions, QRPL # 696

Date: Thu, 24 Sep 1998 20:15:48 -0400
From: "Ken Hanks" <KenNFD@ibm.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [20899] Re: Radiokit revisited
Message-ID: <003f01bde819\$d1123620\$16686420@kh>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

At least you guys received your kits. I sent in my \$100 and heard nothing but excuses from him for 6 months. That was when he decided to stop taking phone calls and started returning certified mail unopened.

Took the New Hampshire Attorney Generals Office to persuade him to return my money.

73, and buyer beware!

Ken K1XS@ibm.net

Date: Thu, 24 Sep 1998 19:26:57 -0500
From: "Walter Dufrain" <walter@inlink.com>
To: <PDouglas12@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [20900] Re: Radiokit revisited
Message-ID: <199809250029.TAA27919@thor.inlink.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Preston and All, well "dummie me", I was given the QRP15 kit boards several months ago and have a small beginning of building the kit. This is not a beginners kit, its probable completion date is next year, and its a good thing I'm sorta

semi-retired. You do have to trace every land and component position to be sure of the population placements. One advantage is that the parts are being acquired one at a time so there is plenty of time for study of the pc board.

This is just another challenge for me to own a very rare transceiver for the 15 meter band.

73 Walter Dufrain, AG5P Wright City, Missouri

> snipped<
> A message string has begun on "very small rigs", like those put out by
> Radiokit until about four years ago. Yeah, four years is a lifetime in
ham
> radio.
> I own an "original" Radiokit 20M receiver, a "three board" QRP 20
transceiver
> and a "late model" QRP 30 transceiver. had no silk screening--and the
> instructions didn't contain a scale parts placement drawing. . > Preston
Douglas WJ2V

Date: Thu, 24 Sep 1998 20:44:34 -0400
From: Luke Stras <stras@ecf.utoronto.ca>
To: qrp-l@Lehigh.EDU
Subject: [20901] Re: Dual Gate GaAsFETs - Inexpensive
Message-ID: <Pine.SOL.3.96.980924204231.14415B-1000000@spark28.ecf>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 24 Sep 1998, Adam B. Kanis wrote:

> each. They are SMD's. I know that dual-gate FETs are getting harder to
> find, so i decided to buy some to play with. at a dime a piece, can not go

Can anyone point me to a textbook or paper or whatever which has theory on d.g. FETs? I have yet to see *any* fundamental device equations. I suspect that the equation is simply $i_d = (v_{g1} + v_{g2} + v_{th})^2$, like the standard FET equations, but I have no confirmation.

73 de VA3LNS

--

Luke Stras

stras@ecf.toronto.edu

Code Monkey, UTIAS Flight Simulation Group (416)667-7725
"...Unix is user friendly. It just happens to be very selective
about who its friends are." -- Kyle Hearn on a.s.r

Date: Thu, 24 Sep 1998 20:00:01 -0500
From: Goemans <jgoemans@facstaff.wisc.edu>
To: qrp-l@Lehigh.EDU
Subject: [20902] more towns and states.
Message-ID: <199809250058.TAA47452@mail1.doit.wisc.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well,

Here in Wi. we could contribute...
Wales, Denmark, Poland, Luxemburg, New Holstein (\$^&??), Pulaski,
New London, Berlin, New Berlin, Brussels, New Glarus, New London, New
Lisbon, Athens, Belgium, Cuba City and Scandinavia, to mention a few...
Let's go!!!

72, Paul

PS Any guess who settled Wi ???

Paul R Goemans WA9PWP
1508 Sundt Lane
Stoughton, Wi. 53589-1069 608-877-4151
QRP ARCI 7291 NorCal 1226 QRP-L 127 FISTS 2153 G QRP 9879

Date: Thu, 24 Sep 1998 20:58:38 EDT
From: BADDDBadger@aol.com
To: qrp-l@Lehigh.EDU
Subject: [20903] Re: Radio Shack DX394 closeout
Message-ID: <df11fa09.360aeabe@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 9/24/98 6:57:53 PM, DYARNES@AOL.COM writes:

>The most annoying thing to me about this radio is the 100 hz minimum
>resolution. Not a biggie I guess, but it kinda gets me when you can't
>sliiiiide smooooothly down the band!
>It's a sensitive little critter, though.
>
The fine tuning control reduces the resolution to about 20 Hz or so. It
appears that you can continually tune with this control. The big drawback is
the tiny knob, though. It's a nice rcvr to use for quickly checking condx
elsewhere.

Date: Thu, 24 Sep 1998 18:02:20 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Luke Stras <stras@ecf.utoronto.ca>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20904] Re: Dual Gate GaAsFETs - Inexpensive
Message-ID: <Pine.BSI.3.96.980924180106.1206A-1000000@usr06.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 24 Sep 1998, Luke Stras wrote:

> On Thu, 24 Sep 1998, Adam B. Kanis wrote:
>
> > each. They are SMD's. I know that dual-gate FETs are getting harder to
> > find, so i decided to buy some to play with. at a dime a piece, can not go
>
> Can anyone point me to a textbook or paper or whatever which has theory on
> d.g. FETs? I have yet to see *any* fundamental device equations. I
> suspect that the equation is simply $i_d = (v_{g1} + v_{g2} + v_{th})^2$, like the
> standard FET equations, but I have no confirmation.
>

Luke,

If you go to the technical bibliograpies on my web page, you will
find a large number of references for dual-gate FETs.

,-----.
 / What's all this \
 / extinct stuff, anyhow? \
 \ -----'
 _ |/
oo\
(__)\

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240

```

\ \ . ' \
\ \ " \
. ( ) \
'-| )__| :. \
| | | | \
c__; c__; '-..'|>.__

```

Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Thu, 24 Sep 1998 18:13:12 -0700
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: <Denton@Bramwell.Org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [20905] Re: Differences on CW vs Single tone SSB?
Message-ID: <013f01bde821\$ab323100\$a705b2d1@rmccarty.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Does anyone use an Icom IC-706 on CW? Check the schematic, I *believe* this is the method it uses for CW generation. Not sure though. A friend told me he was able to change the "Transmitted Tone" while the (displayed) RF frequency remained constant. I therefore surmised they must be feeding an oscillator into the speech amp. Be interesting to know for sure.

Roger KD6CC

-----Original Message-----

From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Thursday, September 24, 1998 5:11 PM
Subject: RE: Differences on CW vs Single tone SSB?

Date: Thu, 24 Sep 1998 21:08:15 -0400
From: w2bj@juno.com (Barry J Minsky)
To: KenNFD@ibm.net
Cc: qrp-l@Lehigh.EDU
Subject: [20906] Re: Radiokit revisited
Message-ID: <19980924.211041.-318567.1.w2bj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I understand the problem. At least you got your money back. I was in the Army (I still am.) and living in Italy when I ordered my kit. The first few times I called him, he had excuses. After that, he pretended that he could not hear me when I called. It was difficult dealing with issues like that from overseas. I never did get my money back.

On Thu, 24 Sep 1998 20:15:48 -0400 "Ken Hanks" <KenNFD@ibm.net> writes:

>At least you guys received your kits. I sent in my \$100 and heard
>nothing
>but excuses from him for 6 months. That was when he decided to stop
>taking
>phone calls and started returning certified mail unopened.
>
>Took the New Hampshire Attorney Generals Office to persuade him to
>return my
>money.
>
>73, and buyer beware!
>
>Ken K1XS@ibm.net
>
>
>
>

72/73,

Barry J. Minsky, W2BJ
ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701,
Knightlites, Adventure Radio Society #359,
Six Club #151, Quarter Century Wireless Ass'n #29298, Old Old Timers
Club #3723
Amateur Radio Missionary Service

Date: Thu, 24 Sep 1998 21:20:13 -0400
From: kd4pvm@juno.com (Paul W Bridgeman)
To: qrp-l@Lehigh.EDU
Subject: [20907] Advice on kits
Message-ID: <19980924.212013.8942.1.KD4PVM@juno.com>

Hello all,

I am looking to purchase a few QRP kits and have
ran across a catalog with several kits from
Vectronics. I personally have never heard of them
before now, and would appreciate any input from
the group. Thanks

Paul

-.-. -.-. -.-. -.-. -.-. -.-. -.-. -.-.
Paul Bridgeman KD4PVM
Fayetteville, NC
QRP-L # 1641 ZOMBIE # 248
-.. . -. .-.- .--. ...- ---.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 24 Sep 1998 20:20:04 -0500
From: Tim Ahrens <tahrens@inetport.com>
To: qrp-l@Lehigh.EDU
Subject: [20908] re: Radiokit revisited
Message-ID: <360AEFC4.CC2255C8@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

No encouraging words here... I built the 20 meter one up directly
from the magazine article (pcbs done in the bathroom, etc)... the
rx worked pretty good, but on a spectrum analyzer the output
looked like a picket fence. Gave the author a call & asked
about it, & he hadn't checked it out on an analyzer.

cuall

Tim W5FN

ps: don't interpret this message as an acknowledgement that
I can fix, know all about the kits, etc ;-)

Date: Thu, 24 Sep 1998 19:44:10 -0500 (EST)
From: bob evinger <revinger@marshallonline.com>
To: qrp-1@Lehigh.EDU
Subject: [20909] anybody got the OHR-500A yet
Message-ID: <Pine.LNX.3.96.980924194234.948A-100000@wd9eka>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

So has anybody, bought and started/finished the OHR500 yet?
Trying to convince myself whether to get it or not and figure out
what I other gear I need to sell to rake up the funds to do it.

bob

Bob Evinger | 19250 N. Livingston Road | revinger@marshallonline.com
WD9EKA | Marshall, IL 62441 |

Date: Thu, 24 Sep 1998 19:49:12 -0600
From: "Steve Hurst" <shurst@magiclink.com>
To: <jgoemans@facstaff.wisc.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [20910] Re: more towns and states.
Message-ID: <199809250148.VAA35816@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Paul ,

Must have been some Dutch folks , with all the dairys and all !! ???

73,
Steve Hurst
KA7NOC (southern Idaho)
<http://www.magiclink.com/web/shurst>
shurst@magiclink.com

" I'm cooler than you are. Why don't you fix your little problem and light this candle ?"

Alan B. Shepard

> From: Goemans <jgoemans@facstaff.wisc.edu>

>

>

> PS Any guess who settled Wi ???

>

> Paul R Goemans WA9PWP

> 1508 Sundt Lane

> Stoughton, Wi. 53589-1069 608-877-4151

> QRP ARCI 7291 NorCal 1226 QRP-L 127 FISTS 2153 G QRP 9879

>

>

Date: Thu, 24 Sep 1998 21:45:43 EDT

From: we6w@juno.com (Ed Loranger)

To: cooper@gmpvt.com

Cc: qrp-l@Lehigh.EDU

Subject: [20911] Re: Radiokit revisited

Message-ID: <19980924.183916.4807.1.we6w@juno.com>

I would love the challenge to build this kit and return it to you. (Hopefully in working order!)

Ed Loranger

2326 Pacheco Pl.

Santa Rosa, CA 95401-5733

--

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>

Enjoying Ham Radio every day! Santa Rosa, CA.

On Thu, 24 Sep 1998 16:32:00 -0400 Tom Cooper <cooper@gmpvt.com> writes:

>Both Nils and I have 75M SSB xcvr "kits", for a Ham Radio magazine

>article by Rick Littlefield, that were put out by Radiokit. These

>kits are complete hobbies in themselves. If any of you dares to

>utter even the slightest encouraging word, I will try to deliver my

>junk

>to your door with no return address before he does.

>

>The parts quality is excellent but the pc board and instructions are

>the worst ever. If Monty Python did ham radio skits, this would be
>the Spam.
>
>
>Tom W1EAT
>
>
>
>
>
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 24 Sep 1998 22:15:23 -0400 (EDT)
From: Fran Flynn <fflynn@together.net>
To: qrp-1@Lehigh.EDU
Subject: [20912] PWM in AM
Message-ID: <199809250215.WAA03373@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

In the discussion of AM modulation, no one so far has mentioned the use of pulse width modulation. I don't work with AM radio so I only have a rudimentary understanding of how it works, but I believe that an AM transmitter can be modulated using much the same scheme as some servo control systems that are used in broadcast video tape recorders and also in many switched mode DC power supplies. In one servo system that I know of, the capstan and scanner motors are controlled by 'chopping' DC at a 50khz rate. The duty cycle of a square wave is changed by the system control. A L-C low pass filter is used to remove the switching signal and provide a controlled DC to the motor. It's very much like a switching power supply. As far as I know, some of the newer AM transmitters use a similar scheme for two reasons, energy considerations and avoiding or reducing the need for large iron core transformers, the same reasons PWM is used in switching supplies. Perhaps someone who knows more about commercial AM transmitters can follow up here.

tnx es 73

Francis Flynn
ARS: KM1Z Grid: FN34

"Perhaps the dream is dreaming us, astride the backs of eagles"
-Sting

Date: Thu, 24 Sep 1998 22:55:11 -0400
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-1@Lehigh.EDU
Subject: [20913] Zombie badge info
Message-ID: <3.0.5.32.19980924225511.007cdcd0@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I can't recall who was handling the Zombie badge stuff. Could someone give me that person's E-mail address?

I had the info, but in my enthusiasm to clean out the mailbox, I must have killed it.

tia es 72/73 de n3byy

Date: Thu, 24 Sep 1998 21:49:46 -0500
From: Ron Keener <rkeener@realtime.net>
To: slochat@egroups.com, qrp-1@Lehigh.EDU, Mary_Keener@jemm.com
Subject: [20914] CL1PR medical emergency - update
Message-ID: <360B04CA.307F@realtime.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

i just spent an hour and half on 7110.6 with Julio - things are not good
- no medicine - no red cross - wife Aida is not good - storm is still
bad - he is very sad

on top of all this he told me he lost his job as a programmer and a
telecommunications engineer because he is 'not a communist' - he has no
job prospects so far

enjoy our life style in the good ole USA - it could be MUCH worse

ron wa0ree

Date: Thu, 24 Sep 1998 23:03:09 EDT
From: Shepherd@aol.com
To: qrp-1@Lehigh.EDU
Subject: [20915] Re: towns and states
Message-ID: <3814ea12.360b07ed@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Here in Ohio we have Russia (ru-sha).
Could I work there as 9a/n8vzu/qrp? :-)

Date: Thu, 24 Sep 1998 23:08:56 EDT
From: Shepherd@aol.com
To: qrp-1@Lehigh.EDU
Subject: [20916] Re: CL1PR medical emergency - update
Message-ID: <a54b3290.360b0948@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

It should serve to wake us all up as to how lucky we are here in the U.S.

Tell Julio to keep the faith and that my prayers go with him.

72,73
Dan, N8VZU

Date: Thu, 24 Sep 1998 21:27:46 -0600
From: "Steve Hurst" <shurst@magiclink.com>
To: <Shepherd@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [20917] Re: towns and states
Message-ID: <199809250326.XAA69078@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

We have Moscow (Moss-Co) here in Idaho (I-de-ho), and Eden is close by
(wonder if Eve is still hanging out there ? HMMMMM) . Can't think of
any others.

73,
Steve Hurst
KA7NOC (southern Idaho)
<http://www.magiclink.com/web/shurst>
shurst@magiclink.com

" I'm cooler than you are. Why don't you fix your little problem and light
this candle ?"
Alan B. Shepard

> From: Shephed@aol.com
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: Re: towns and states
> Date: Thursday, September 24, 1998 9:03 PM
>
> Here in Ohio we have Russia (ru-sha).
> Could I work there as 9a/n8vzu/qrp? :-)
>

Date: Fri, 18 Sep 1998 23:27:05 -0700
From: k7sz@epix.net
To: qrp-1@Lehigh.EDU
Subject: [20918] LDG Tuner - HELP!
Message-ID: <36034EB9.7E7B@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

At the VA Beach fest last weekend, I managed to pick up a factory built
LDG QRP tuner from Dennis, WR4I. Unfortunately, I do not have any docs
with this unit and need some help to figure out how to use this little
beastie.

I will be going to SCI-Smithfield Mon-Wed next week and want to take the
Sierra and the LDG Tuner with me to use from my motel room (already have

a 3rd floor room booked). So, if anyone can give me a quick "down and dirty" on this tuner's operation, I would greatly appreciate it.

73 es Tnx
Rich K7SZ

Date: Thu, 24 Sep 1998 23:36:21 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: QRP List <qrp-l@Lehigh.EDU>
Cc: Paul Valko <pvalko@ci.auburn-hills.mi.us>
Subject: [20919] FOX: OFFICIAL FOXHUNT RULES AND SCHEDULE v1.00
Message-ID: <Pine.OSF.3.95.980924232442.3481A-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here it goes folks! I've gone over this thing a zillion times and it's about as good as it'll ever get. Enjoy!

1 9 9 8 - 1 9 9 9 Q R P - L F O X H U N T !

OVERVIEW

For those of you new to the list and haven't read through all the archives for the past four years here is a brief overview:

The QRP-L Fox-Hunt is arguably the most popular QRP operating event on the planet. Thousands of two-way QRP QSO's have been generated during this event since Chuck Adams (K5F0) started the first Foxhunt five years ago. I'll borrow from Chuck here, to explain...

Starting the first full week of October, and for approximately 22 weeks (until Mar 4th 1999) thereafter we get two of the individuals on this list to get on the air for two hours at a predetermined date and time each week. This on 40M CW and during the middle of the week.

This gets us on the air when there are no contests, sprints, or world wide pileups fighting for points. We generate our own microcosm of those larger contests. I think that those that participated enjoyed it very much and the flurry of posts the days after (which were not enjoyed by everyone and hated by a few) really showed interest with lots of tales of worked and not worked and some feel for how difficult two way QRP QSOs are

to get going.

The "fox" posts the list of contacts within a few days afterwards and W8KC periodically posts updates on the "scores". The fox gets two points per two-way QRP contact with QRP-L members (verified by an exchange of a QRP-L number) and one point for any other type of contact with a non-QRP-L, or QRO contact.

OK Gang??? Here it comes, ready or not! Don't be put off by what may appear to be excessive rules. Not much has changed from previous years.

DEFINITIONS

QRP = 5 watts or less RF output from the transmitter.

QRO = any power greater than 5 watts.

Fox = the station everyone tries to work. Also known as foxii, the fox, the wily one, the bushy tailed SOB, etc.

Hound = any station trying to work the fox. Also known as the hound, hunter, hunters, the skunked, the pile-up.

W8KC = Paul Valko, runs the foxhunt. Also known as, =paul=, The collector of TenTecs and other fine plastics, Rule Maker, Rule Definer, Peace Keeper, Butt Kicker, etc.

RULES

1.0 OBJECTIVE - The objective is to HAVE FUN.

1.1 GENERAL FOX GUIDELINES

1.12 Fox try to complete as many two-way, CW, QRP, QRP-L member QSOs - as possible, in the given time period.

1.13 Fox must post PRIOR to operation day with details (rig, ant, freq) regarding their operation.

1.14 Fox will operate within +/- 10Khz of 7.040 MHz but should make an effort to AVOID operating directly on 7.040.

1.15 Fox will be allowed to QSY to avoid QRM.

1.16 Fox WILL NOT operate "split."

1.2 GENERAL HOUND GUIDELINES

1.21 Hounds ONLY work the Fox.

1.22 Hounds must NOT QRM the Fox Frequency after the QSO.

1.23 Hounds, work as many Foxii as possible over the 22 weeks of the Foxhunt.

1.24 Hunters must be QRP to get the one point credit. This allows the fox to get 1 point for casual ops who are running >5 watts and stray into the foxhunt.

2.0 SCORING SYSTEM - Points are awarded as follows:

SCORE

2.1 QRO Station works fox and receives 0 points

2.2 Fox works QRO station (no pwr rcvd) 1 point

2.3 If two-way QRP (Hound reports <= 5W) 2 points

If two-way QRP-L number is exchanged 3 points

- 2.31 Instructions to get your QRP-L Number are at the bottom of this message.
- 2.4 Maximum points for any one QSO is 3 points.
- 2.5 A successful QSO MUST exchange as a minimum: Callsigns, RST reports, and QTH.
- 2.6 If hunter gives power <= 5 watts, obviously that counts as a two-way QRP QSO worth 2 points.
- 2.7 If hunter also gives QRP-L Number, that will be a 3 pt QSO.
- 3.0 REPORTING SYSTEM
- 3.1 Foxii LOGS MUST be posted to QRP-L with a copy also sent to: prvalko@oakland.edu
- 3.11 Posts to QRP-L Regarding the Foxhunt should begin with "FOX:" to enable filters to do their magic.
- 3.2 The Foxii log shall have the following layout:

TIME	STATION	FOX	HOUND	HOUND	HOUND	HOUND
GMT	WORKED	RST	RST	QTH	QRP-L#	POWER
						POINTS

as an example...

0200	w8kc	559	559	mi	59	2w	3
0201	wq9rp	579	579	wi		.9w	2
0202	n8iin	599	559	mi			1
						TOTAL	6 POINTS

- 3.3 The Fox is responsible and is to be honorable in reporting scores.
- 3.4 Hounds are encouraged to report both successful AND failed hunts to QRP-L (I do not need a Hound Log). This is also a propagation study, you know.
- 4.0 SPECIAL FOX EVENTS
- 4.1 A Special Event Fox may pop up once or twice to keep hunters on their toes. Stay tuned to QRP-L for these announcements.
- 4.2 A Novice Foxhunt will begin sometime in November.
- 4.5 There is a "Bye Date" where no fox is scheduled.
- 4.6 No Foxhunt is planned during Straight Key Night.
- 4.7 Any "sub-contest" such as "team competition" is the sole responsibility of the person who decides to run one.
- 4.71 Sub-contests must in no way interfere with the rules and smooth operation of the AUTHORIZED QRP-L FOXHUNT.

1998/1999 FOX SCHEDULE VERSION 1.00

WEEK	GMT DATE	FOX OP	FOX QTH	START TIME(Z)	GMT DATE	FOX OP	FOX QTH	START TIME(Z)
1	10/7	AB5UA		OK 0200	10/9	WQ8RP	MI	0100
2	10/14		WA8GHZ	TX 0100	10/16		W8RU MI	0200
3	10/21		KV2X NY	0200	10/23		K8CV MI	0200
4	10/28		N2TO NY	0100	10/30		KU7Y NV	0100

5	11/4	AB5UA	OK	0200	11/6	N1FN	CO	0300		
6	11/11	K1MG	CA	0200	11/13	WA8GHZ	TX	0200		
7	11/18	AB0GO	CO	0200	11/20	K8CV	MI	0200		
8	11/25	W5TFB	TX	0200	11/27	KB7MBI	WA	0200		
9	12/2	N0UR	MN	0100	12/4	WS4S	TN	0300		
10	12/9	N7CQR	OR	0200	12/11	N2TO	NY	0200		
11	12/16	K5ZTY	TX	0200	12/18	N2SMH	NJ	0100		
12	12/23	WQ8RP	MI	0100	12/25	KB7MBI	WA	0200		
13	12/30	VE7DXJ	BC	0200	1/1/99	*** SKN ***				
14	1/6	** BYE DATE **			1/8	VE7DXJ	BC	0300		
15	1/13	K0EVZ	ND	0200	1/15	N7CQR	OR	0300		
16	1/20	N2SMH	NJ	0100	1/22	W8RU	MI	0200		
17	1/27	N0UR	MN	0100	1/29	WS4S	TN	0300		
18	2/3	W5TFB	TX	0200	2/5	K1MG	CA	0100		
19	2/10	KV2X	NY	0200	2/12	AB0GO	CO	0200		
20	2/17	K0EVZ	ND	0200	2/19	VE7CQK	BC	0100		
21	2/24	KU7Y	NV	0100	2/26	N1FN	CO	0300		
22	3/3	VE7CQK	BC	0100	3/5	K5ZTY	TX	0200		

FOX EMAIL ADDRESSES

Dave Ek <ekdave@earthlink.net>,
 Clifton W Sikes <ab5uacw@juno.com>,
 "Wilford D. Lindsey" <70511.3041@compuserve.com>,
 "Michael A. Gipe" <mgipe@reliablemeters.com>,
 k5zty@juno.com,
 Walt Amos <waltk8cv@ameritech.net>,
 Hank Kohl K8DD <k8dd@contesting.com>,
 ARDUJENSKI@aol.com,
 Monte Stark <ku7y@dri.edu>,
 Thomas Jennings <jennings@eng14.rochny.uspra.abb.com>,
 Lageson's <LAGESON@worldnet.att.net>,
 Marshall Emm <mgemm@mtechnologies.com>,
 David Maliniak <dmaliniak@penton.com>,
 "Kevin F. Glynn" <kfglynn@prodigy.net>,
 Dan Presley <talljazz@teleport.com>,
 Paul Erickson <paule@sfu.ca>,
 "C. Leung" <cleung@cln.etc.bc.ca>,
 Jack Bryant <Jack.Bryant@math.tamu.edu>,
 Ron Majewski <majewski@erim-int.com>,
 JFD / WA8GHZ /5 <jdougher@wt.net>,
 Conard Murray <ws4s@infoave.net>

OBTAINING A QRP-L MEMBER NUMBER

Use this command to obtain a QRP-L member number.

RUN QRP-L X GETNR callsign

example: RUN QRP-L X GETNR W8KC

where "callsign" is your callsign. Send this in the body of a message to LISTSERV@LEHIGH.EDU. Use the word NONE if you don't yet have a callsign. The list of assigned member numbers can be had via the command, also to LISTSERV@LEHIGH.EDU:

GET QRP-L/MISC MEMBER_NUMBERS.TXT

That's it for now gang! Unleash the hounds!!!

73! =paul= W8KC

Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Thu, 24 Sep 1998 23:36:57 -0400
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [20920] CQ HAWAII, CQ HAWAII for WAS
Message-ID: <199809250336.XAA12186@pimout1-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi gang,

I need Hawaii confirmed for QRP WAS CW.

Anybody want to try on 15M?

72 Kevin N2T0
Brooklyn, NYC
kfglynn@prodigy.net

Date: Thu, 24 Sep 1998 23:55:14 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [20921] FOX: N/T+ Foxii Wanted!!!
Message-ID: <Pine.OSF.3.95.980924234929.3481D-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I only have THREE hams signed up for the Novice/Tech Fox Hunt.

Anyone else interested in a slot? It'll get you to General Class by
Dayton! I GAR-UN-TEE!!!

BTW... YES, the maximum number of points that can be "scored" this year is
in fact THREE (up 1pt from TWO)!!! And because the universe must have
equilibrium, the lowest number of points that can be scored, is ZERO
(down 1pt from ONE)!!!

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics
<<http://www.acs.oakland.edu/~prvalko>>

Date: Fri, 25 Sep 1998 00:02:27 -0400 (EDT)
From: Fran Flynn <fflynn@together.net>
To: qrp-l@lehigh.edu
Subject: [20922] Re: PWM in AM

Message-ID: <199809250402.AAA09671@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Nowadays, AM broadcast transmitters are all solid state, using mosfets in
>the finals and modulators. The finals operate switchmode at the carrier
>frequency.
>
>73,
>Bob - W3CD

Sure, why not? I didn't think of that. It seems like the most obvious
and simplest way to generate AM. I think that earlier devices didn't
allow it, but now it's easy with mosfets. No big transformers, right?

Maybe we can apply this to qrp somehow. (I had to insert something
related to qrp)

72

Francis Flynn
ARS: KM1Z Grid: FN34

"Perhaps the dream is dreaming us, astride the backs of eagles"
-Sting

Date: Thu, 24 Sep 1998 22:16:09 +0100
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [20923] RE: LDG Tuner - HELP!
Message-ID: <5103124387F8D11199DD00A0C925E4B91688@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

The complete manual is downloadable from www.ldgelectronics.com.

-----Original Message-----
From: k7sz@epix.net [mailto:k7sz@epix.net]
Sent: Saturday, September 19, 1998 12:27 AM
To: Low Power Amateur Radio Discussion
Subject: LDG Tuner - HELP!

At the VA Beach fest last weekend, I managed to pick up a factory built LDG QRP tuner from Dennis, WR4I. Unfortunately, I do not have any docs with this unit and need some help to figure out how to use this little beastie.

I will be going to SCI-Smithfield Mon-Wed next week and want to take the Sierra and the LDG Tuner with me to use from my motel room (already have a 3rd floor room booked). So, if anyone can give me a quick "down and dirty" on this tuner's operation, I would greatly appreciate it.

73 es Tnx
Rich K7SZ

Date: Fri, 25 Sep 1998 00:23:43 EDT
From: Ab7wy@aol.com
To: qrp-1@Lehigh.EDU
Subject: [20924] towns and states potential problem?
Message-ID: <6a87de8c.360b1acf@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

i was sitting here thinking how cool this contest would be....then i thought of something else....if a station is in Athens , GA...he would sign with SV/.....unless i missed a post or two, wouldnt other stations (not aware of the contest) be beaming on greece trying to hear him, then realizing hes in the southeastern states, start calling him a pirate....and maybe a few other niceties? how would you sign in a contest like that to identify yourself as a contestant? especially if you are running qrp....thats a loooong call to sign with, considering all the slashes and stuff.

just a thought
73....Adam, AB7WY
Lynnwood, WA (dont know where i could say im from either)
soon to be in Las Vegas, NV (EA maybe?)

Date: Thu, 24 Sep 1998 21:12:28 -0700

From: mnhopkins@juno.com (Michael N Hopkins)
To: QRP-L@Lehigh.EDU
Subject: [20925] Opto-regen really fly?
Message-ID: <19980925.001853.-241427.7.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

At Dayton in the QRP Caveat Emptor suite there was talk of a regenerative receiver then featured in QST using an optoelectric coupler in the front end and claiming it conquered the radiation and instability problems that afflict bloopers of all stripes. The article's bib. was defective for no mention whatever of the work of Kitchin, and thus worthless to a serious student, but what of the rig itself?

The firm did not have one to show. They did show a DC RX with a loop antenna that would make 40M almost bearable to those who have not long ago abandoned that band to broadcasters and killoblasters,

So, has any one built an opto regen and how did it work?

73 de ab5L, michael in Dallas, student of Six Meters' Golden Age,
1957-58,
and two of its jewels: Tecraft and International Crystal ham products.
Michael N. Hopkins
Box 226841
Dallas, TX 75222 MNHopkins@Juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 24 Sep 1998 22:35:11 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20926] Re: towns and states potential problem?
Message-ID: <360AC91F.C893BBF5@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Before you all get too carried away, I'd rethink this thread. Signing

with a foreign prefix preceding your call while you are in the U.S. will cause you _real_ problems.

Read the rules.....the FCC rules.

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ

Date: Thu, 24 Sep 1998 22:36:11 -0700
From: Dave Fifield <fifield@pacbell.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [20927] Norcal Zombies - Origin
Message-ID: <360B2BCB.726A@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

James,

I believe the second mention was my tongue in cheek reply to Roy.

It was from that exchange that it all started.....hmmmm, strange how these things snowball eh? We have a lot to thank Roy for.....don't we? Do we?

Dave Fifield, AD6AY

Date: Fri, 25 Sep 1998 01:47:21 EDT
From: RABRUNER@aol.com
To: Dan_Tayloe-P26412@email.mot.com, qrp-l@Lehigh.EDU
Subject: [20928] Re: Differences on CW vs Single tone SSB?
Message-ID: <e40b8975.360b2e69@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 9/24/98 11:36:24 AM Central Daylight Time, Dan_Tayloe-P26412@email.mot.com writes:

> Is there any real difference between a CW signal and a single sideband
> single modulated with a single tone?
>
> I can see the signals don't at all look the same on the 'scope.
> CW has a constant signal level, the SSB looks amplitude modulated.
> However, I was just wondering if they are mathematically (somehow)
> equivalent?

If you had a perfect transmitter, there would be no difference between them. That "amplitude modulation" is exactly that. An artifact of residual carrier leaking through the transmitter. If you see more than a little bit, it may suggest that your modulator balance could stand some tweaking. If you looked at the signal on a spectrum analyzer, you would see two little additional pips corresponding to whatever amount of carrier and "suppressed" sideband were leaking through.

Bob Bruner
WB4TAJ/9
Chicago

Date: Fri, 25 Sep 1998 02:39:06 EDT
From: RABRUNER@aol.com
To: fflynn@together.net, qrp-1@lehigh.edu
Subject: [20929] Re: PWM in AM
Message-ID: <f25c88ee.360b3a8a@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 9/24/98 9:33:51 PM Central Daylight Time,
fflynn@together.net writes:

> As far as I know, some of the
> newer AM transmitters use a similar scheme [PWM] for two reasons, energy
> considerations and avoiding or reducing the need for large iron core
> transformers, the same reasons PWM is used in switching supplies.

Pulse width modulators are very common in broadcast use, even dating back into the tube era. For instance, Collins built a PWM xmtr which used, as I recall, five 5-500's where one of the tubes modulated the other 4. I'm not sure the cause of simplicity is served by that technology, though. After all AM modulation is basically a heterodyne process. In a high level plate modulated transmitter, the mixing just takes place on carrier frequency at carrier power. High level plate modulation was used in commercial tube transmitters

because overall it took fewer tubes and used less total power off the power mains than some low level modulator/linear amplifier schemes. High efficiency linear amplifiers like Doherty amplifiers failed the complexity test. But nowadays, you could generate AM modulation in a multiplier chip and follow it with a variable frequency mixer and modest linear amplifier and make a dandy little AM QRP rig. What would the problems be in making a frequency agile switch mode AM transmitter, especially a multibander? One drawback to PWM transmitters is that they are hard to build clean, especially in the local vicinity of the transmitter.

Bob Bruner
WB4TAJ/9
Chicago

Date: Fri, 25 Sep 1998 06:17:12 -0400
From: "Harry, WA3PTG" <hhurst@delaware.infi.net>
To: <qrp-l@Lehigh.EDU>
Subject: [20930] RE: How Rare is Delaware?
Message-ID: <199809251002.GAA10218@fh101.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

While parts of the state are rare, especially in the middle, the edges are well done.

I'm home.
Life is good.
QRP-L #1464

Date: Fri, 25 Sep 1998 06:25:15 -0400
From: "david r" <elbc@pivot.net>
To: <kd4pvm@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [20931] Re: Advice on kits
Message-ID: <005a01bde86e\$ca18a020\$fb1199d0@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Paul W Bridgeman <kd4pvm@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Thursday, September 24, 1998 9:37 PM
Subject: Advice on kits

>Hello all,
> I am looking to purchase a few QRP kits and have
>ran across a catalog with several kits from
>Vectronics,(snip)

By the way forgot to add this not to my last post.. Rick is looking for any ideas the ham community may have for neat little inexpensive kits.. got an accessory or some other device you've always wanted to kit let him know..
k1bqt@aol.com

Date: Fri, 25 Sep 1998 07:03:31 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Monte Stark <ku7y@dri.edu>
Cc: QRP List <qrp-l@Lehigh.EDU>
Subject: [20932] FOX: Split Operation
Message-ID: <Pine.OSF.3.95.980925054131.16142B-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 24 Sep 1998, A FOX wrote:

> Be forwarned that many hunters will slide up and down a bit
> from the fox. Others are unable to figure out how to zero beat the fox.
> For the sake of arguments you might want to consider placing
> a limit on splits because someone will bitch about someone
> else being 800 hz high and calling that a split! :-)

This topic was debated (at length) in the past and it's NOT OPEN for discussion now. :-) I'm following Chuck's rules.

When we say NO SPLIT what I'm saying is that the FOX is to stay on one

frequency to transmit and must listen on that frequency +/- hunter CW note frequencies.

It is fine for the Fox to use Receiver Incremental Tuning (RIT) to fine tune the hound signal.

The term SPLIT refers to the classic DX operation style where the DX (FOX) INTENTIONALLY listens UP or DOWN (anywhere from several hundred to several thousand KHz!) from their TX frequency.

Hope that's clear.

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Fri, 25 Sep 1998 08:11:59 -0300
From: Dave Marling <dbm@klis.com>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [20933] STAMP
Message-ID: <360B7A7F.90457B32@klis.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Several weeks back someone posted URL information concerning Parallax Basic STAMPS.

I have a couple of basic questions about Basic STAMPS. Could some nice person answer a few questions regarding the minimum hardware setup that I need to get started. I DON'T need programming info!

Dave
VE1VQ
--

What, me excited! - don't be ridiculous - I'm Canadian!

Date: Fri, 25 Sep 1998 07:36:20 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: //QRP-L Discussion Group <QRP-L@lehigh.edu>, "+Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [20934] Help w/QL Mailing Labels
Message-ID: <199809250740_MC2-5A8F-8E7F@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Gang:

Looking for a source for 5" X 7/16" mailing labels. Anyone know where they might be purchased? Seems Avery has every size but these :-(. Sure hope someone can help out. Will surely be appreciated. Thanks in advance.

72/73,
--Doc Lindsey/K0EVZ Rochester, MN--Home of the Mayo Clinic.
MWBC
519-16th Street SE
Rochester, MN 55904
507/289-5108 (eves)

Date: Fri, 25 Sep 1998 04:55:19 PDT
From: "James Apple" <wb1dog@hotmail.com>
To: qrp-l@lehigh.edu, ehare@arrl.org
Subject: [20935] Re: WAS WEEKEND (Another RI option)
Message-ID: <19980925115519.16664.qmail@hotmail.com>
Content-Type: text/plain

>In the meantime, seeing as RI seems to be another "rare" one, let me see
>if I can talk KH6HZ, a friend in RI, to do a few skeds.
>
>73,
>Ed, W1RFI
>ARRL Lab

I can provide a RI qso if needed also. I have been of the air for some time and my code is slow and rusty, but if you don't mind ...

I spend most of my time at 7.125 and 21.125. But I can try on any band 80-10, my current antler is a 80m loop, which seems to work very well on most bands.

72

Jim Apple - WB1DOG
Pascoag RI

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Fri, 25 Sep 1998 06:17:18 -0600
From: Jess Gypin <jessqrp@concentric.net>
To: qrp-1@lehigh.edu
Subject: [20936] Radiokit Caveat Emptor
Message-ID: <360B89CE.E12EB3D@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just saw this on the 6 meter reflector and thought it might be interesting here with all of the nostalgia about the Radiokit rigs. Seems some things never change. It least the QRP rigs only cost \$100.00!

--
Jess N0TFI <><
<http://www.concentric.net/~jessqrp> Personal Home page
<http://qsl.net/n0tfi/bug.html> Bug Stories

Subject:
 [50MHz] anybody convert SB-220s to 6M?
Date:
 Fri, 25 Sep 1998 06:41:29 -0500
From:
 "Jeff Kadet" <jkadet@macomb.com>
To:
 <50mhz@qth.net>

Does anybody else besides KM1H convert Heathkit SB-220s to 6M amps?

I sent Carl \$930 last May for a converted SB-220 which was supposed to be here by the VHF contest in July.

But despite repeated followups and promises he has still not followed through.

Thanks,

Jeff, K1MOD

Date: Fri, 25 Sep 1998 08:14:31 +0000
From: "Bryan Turner" <turnerw@email.uah.edu>
To: qrp-l@Lehigh.EDU
Subject: [20937] Bulbs
Message-ID: <199809251316.IAA07062@uahis1.uah.edu>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Q - How many lightbulb jokes are too many?

A - One, if the list has nothing to do with light bulb jokes.

Date: Fri, 25 Sep 1998 06:52:41 -0700 (PDT)
From: "KBÿVCC" <kb0vcc@rocketmail.com>
To: qrp-l@lehigh.edu
Subject: [20938] Brilliant Aurura Last Night...
Message-ID: <19980925135241.13944.rocketmail@web4.rocketmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hey Gang,

HF was seemed pretty busy and solid when switched off the rig and headed to bed last night. So I was stunned when I saw the bright green shimmer beaming in the bedroom window.

Absolutely brilliant. Looking up, I could see that it extended well south of my QTH, and at least +/- 50deg of magnetic north. I must have missed reports on some serious solar activity, 'cuz something was sure charging up the ionosphere. Perhaps KD1JV was duplicating the HAARP experiment? Looked like a success from here, Steve! ;*)

A quick scan of the bands before work today, found HF was in the practical sense, "dead", 'cept for a single mega-watt shortwave save-us-all-from-damnation-broadcast station. Even it sounded warbly and sunken in the constant s-9 background QRN. Oh well, I need to work on the house this weekend anyway. But has anyone seen the latest solar and geomagnetic forecast? Should I plan to shelve my HF gear yet, and invest in multi-mode VHF to do that bounce thing off the aurora?

72,
-Dale

```
=====
Dale Anderson           In the Mt Washington Valley
KB0VCC                  Conway, New Hampshire
QRP-L #91 / CQC #251    Grid Sq: FN43KX
ARS #234 / FISTS #3172  http://www.qsl.net/kb0vcc
=====
```

DO YOU YAHOO!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Fri, 25 Sep 1998 09:43:33 -0400
From: "Michael St. Angelo" <mstangelo@worldnet.att.net>
To: "'PDouglas12@aol.com'" <PDouglas12@aol.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20939] RE: Radiokit revisited
Message-ID: <01BDE86A.D28BDA00@232.newark-15-20rs.nj.dial-access.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Preston commented...

It always was a good little radio, in all its iterations. And for the masochists out there, check with Far Circuits. I think they still have the circuit boards for both the three board and single board versions of the original Littlefield. Then you gotta' find a copy of the applicable article.

I bought both board sets and constructed a 20 meter rig with the three board version and the 15 meter rig on the single board version. I followed Rick Littlefield's Ham Radio articles. (I have every issue of HR, which I feel is my most valuable asset.) Besides being tight, I did not have a very difficult time constructing the rigs.

I had some small variable caps with reduction drives for the VFO and planned on mounting the rigs in a cast aluminum enclosure slightly larger than the board footprint.

I got both rigs to work on receive, but had low output plus the infamous oscillation problem on transmit. To troubleshoot, I had to take the boards out of the tight enclosure, which was a major chore. I decided to add a buffer stage between the transmit 602 and the driver. For the 15 meter version, I used a state-of-the-art a National Semi high frequency op-amp which I had gotten as a sample. I finally got the transmitter to work but I could not fit the op-amp on the main board. I placed the op-amp circuitry on an external board the size of two postage stamps. I couldn't fit it in my enclosure! I finally rebuilt the buffer on board the size of a single postage stamp and barely squeezed it in the enclosure.

I learned my lesson the hard way and decided to use a plain old FET buffer for the 20 meter version. Some how I fitted the FET circuitry on the main transmit board and got that to work. I still haven't placed this three board version in the enclosure; I'm afraid once it is secure in the box something else will go wrong!

Even though it was frustrating, I did enjoy working on the radios but I would want to do it again. I place my radios in larger enclosures today. It gives me room for troubleshooting and modifications.

72 Mike N2MS

Date: Fri, 25 Sep 1998 07:09:28 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Bryan Turner <turnerw@email.uah.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20940] Re: Bulbs
Message-ID: <Pine.BSI.3.96.980925070833.4348A-100000@usr07.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 25 Sep 1998, Bryan Turner wrote:

> Q - How many lightbulb jokes are too many?
>
> A - One, if the list has nothing to do with light bulb jokes.
>

Q - How many mail list administrators does it take to turn off
light bulb jokes?

A - One.

```

      /-----\
     /  What's all this  \
    / extinct stuff, anyhow? \
   /-----\
  _ | /
oo\
(--) \
     \  .  .  .  .  .
      \  .  .  .  .  .
       \  "
        \  ( ) \
         \  '-| )__| :. \
          \  | | | | \  .
           \  | | | | \  .
            \  | | | | \  .
             \  | | | | \  .
              \  | | | | \  .
               \  | | | | \  .
                \  | | | | \  .
                 \  | | | | \  .
                  \  | | | | \  .
                   \  | | | | \  .
                    \  | | | | \  .
                     \  | | | | \  .
                      \  | | | | \  .
                       \  | | | | \  .
                        \  | | | | \  .
                         \  | | | | \  .
                          \  | | | | \  .
                           \  | | | | \  .
                            \  | | | | \  .
                             \  | | | | \  .
                              \  | | | | \  .
                               \  | | | | \  .
                                \  | | | | \  .
                                 \  | | | | \  .
                                  \  | | | | \  .
                                   \  | | | | \  .
                                    \  | | | | \  .
                                     \  | | | | \  .
                                      \  | | | | \  .
                                       \  | | | | \  .
                                        \  | | | | \  .
                                         \  | | | | \  .
                                          \  | | | | \  .
                                           \  | | | | \  .
                                            \  | | | | \  .
                                             \  | | | | \  .
                                              \  | | | | \  .
                                               \  | | | | \  .
                                                \  | | | | \  .
                                                 \  | | | | \  .
                                                  \  | | | | \  .
                                                   \  | | | | \  .
                                                    \  | | | | \  .
                                                     \  | | | | \  .
                                                      \  | | | | \  .
                                                       \  | | | | \  .
                                                        \  | | | | \  .
                                                         \  | | | | \  .
                                                          \  | | | | \  .
                                                           \  | | | | \  .
                                                            \  | | | | \  .
                                                             \  | | | | \  .
                                                              \  | | | | \  .
                                                               \  | | | | \  .
                                                                \  | | | | \  .
                                                                 \  | | | | \  .
                                                                  \  | | | | \  .
                                                                   \  | | | | \  .
                                                                    \  | | | | \  .
                                                                     \  | | | | \  .
                                                                      \  | | | | \  .
                                                                       \  | | | | \  .
                                                                        \  | | | | \  .
                                                                         \  | | | | \  .
                                                                          \  | | | | \  .
                                                                           \  | | | | \  .
                                                                            \  | | | | \  .
                                                                             \  | | | | \  .
                                                                              \  | | | | \  .
                                                                               \  | | | | \  .
                                                                                \  | | | | \  .
                                                                                 \  | | | | \  .
                                                                                  \  | | | | \  .
                                                                                   \  | | | | \  .
                                                                                    \  | | | | \  .
                                                                                     \  | | | | \  .
                                                                                      \  | | | | \  .
                                                                                       \  | | | | \  .
                                                                                        \  | | | | \  .
                                                                                         \  | | | | \  .
                                                                                          \  | | | | \  .
                                                                                           \  | | | | \  .
                                                                                            \  | | | | \  .
                                                                                             \  | | | | \  .
                                                                                              \  | | | | \  .
                                                                                               \  | | | | \  .
                                                                                                \  | | | | \  .
                                                                                                 \  | | | | \  .
                                                                                                  \  | | | | \  .
                                                                                                   \  | | | | \  .
                                                                                                    \  | | | | \  .
                                                                                                     \  | | | | \  .
                                                                                                      \  | | | | \  .
                                                                                                       \  | | | | \  .
                                                                                                        \  | | | | \  .
                                                                                                         \  | | | | \  .
                                                                                                          \  | | | | \  .
                                                                                                           \  | | | | \  .
                                                                                                            \  | | | | \  .
                                                                                                             \  | | | | \  .
                                                                                                              \  | | | | \  .
                                                                                                               \  | | | | \  .
                                                                                                                \  | | | | \  .
                                                                                                                 \  | | | | \  .
                                                                                                                  \  | | | | \  .
                                                                                                                   \  | | | | \  .
                                                                                                                    \  | | | | \  .
                                                                                                                     \  | | | | \  .
                                                                                                                      \  | | | | \  .
                                                                                                                       \  | | | | \  .
                                                                                                                        \  | | | | \  .
                                                                                                                         \  | | | | \  .
                                                                                                                          \  | | | | \  .
                                                                                                                           \  | | | | \  .
                                                                                                                            \  | | | | \  .
                                                                                                                             \  | | | | \  .
                                                                                      c__ ; c__ ; ' -.. ' > . __

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Fri, 25 Sep 1998 10:10:33 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Clifton W Sikes <ab5uacw@juno.com>
Cc: QRP List <qrp-l@lehigh.edu>
Subject: [20941] FOX: Sending your name
Message-ID: <Pine.OSF.3.95.980925100715.25929A-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

QUESTION: Last year we had to send names, did that change?

ANSWER: Feel free to include names in your exchange, just don't post them to the "LOG."

Remember the first foxhunts? I dunno if you were around then but they were VERY casual, actually had a full QSO. My first time as the "fox" I worked 8 stations in two hours and thought I did great!

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Fri, 25 Sep 1998 10:50:51 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: mstangelo@worldnet.att.net, "Qrpl_Submit (E-mail)" <qrp-l@lehigh.edu>
Subject: [20942] RE: Radiokit revisited
Message-ID: <21E06269B00ED111BE9B00805F6D0FA33BCEC4@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

I agree with you Mike on the larger enclosures. When we are MODing HB/kit equipment it is always good to have enough space to add that extra 1" X 1" perf board or the extra control to handle some new feature. I think we get too hungup on smallness and forget that part of the fun to to be able to

make changes and try some new idea whether it be self generated or found in some article.

My PIXIE board is hanging(hot glued) in a 3" x 4" X 5" homemade aluminum box that so far has three variable caps, a separate audio board, a tunable LC notch 41mtr filter, an antenna tuner/FE filter and two 9 volt batteries. Soon to be added: A passible LC audio filter, a hybird high-pass/notch frontend filter and a separate T/R switch circuit. That's hard to do in the orginal Altoids box I was using. Why go to all that trouble? Because it's FUN and I'm learning something. Summary PIXIE(40mtrs) 6 states worked at 120 mw.

The older kits might not have been the easiest to work with but I'm sure that anyone that built one will agree that they are better for trying.

>>>> snip >>>>

> I still haven't placed this three board version in the enclosure; I'm
> afraid once it is secure in the box
> something else will go wrong!
>
> Even though it was frustrating, I did enjoy working on the radios but I
> would want to do it again.
> I place my radios in larger enclosures today. It gives me room for
> troubleshooting and modifications.
>
> 72 Mike N2MS
>
 Sam Billingsley AE4GX Atlanta, GA

Date: Fri, 25 Sep 1998 10:54:10 -0400
From: Dan Halbert <halbert@bbn.com>
To: qrp-l@lehigh.edu
Subject: [20943] Re: [19829] Re: DC RCVR Sensitivity Limitations?
Message-ID: <199809251454.KAA15526@franklin.bbn.com>

>From: "laura halliday" <marsgal42@hotmail.com>

...

>In his tests of the R1 receiver, KK7B concluded the problem
>was 1/f noise coming from the mixer - the lower the IF, the
>more noise in the IF output. This would be at its worst in
>a direct conversion receiver with a 0.3 - 3 kHz IF.

...

KK7B later corrected himself on this point. It wasn't actually 1/f mixer noise. I had a vague memory of this, and searching the QRP-L archives (thanks K1MG!), I found the message below.

The QST Technical Correspondence by KK7B that contains the correction is "Direct-Conversion Receiver Noise Figure", Feb 1996 QST.

For a really nice collection of KK7B technical project info, see

<http://www.pconline.com/~rohrwerk/k0jd>

Regards,
Dan, KB1RT

=====
>From leinwebe@mcmail.CIS.McMaster.CA Wed Dec 31 22:45:21 1997
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Subject: Re: Rx Mixers Query

[...]

Let's get the R1/R2 thing straightened out before this thread get's too tangled.

In a subsequent article in QST "Technical Correspondence" KK7B corrected himself, regarding diode noise in the ring mixers he used. He had neglected to terminate the audio preamp with a 50 ohm source resistance when measuring its noise. This resulted in inflated noise that he attributed to the mixing diodes.

Turns out that the mixer was well-behaved as far as noise. A major source of noise in the R2 is the op-amp phase shifters. More audio preamp gain was the suggested fix.

I'd say that the 1/F noise is isolated from the audio amp in his direct conversion receiver. Any diode noise at 7 Mhz. might be converted down to audio, but that's pretty small.

Date: Fri, 25 Sep 1998 07:53:50 -0700
From: Vic Rosenthal <rakefet@rakefet.com>
To: prvalko@oakland.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20944] Re: FOX: Split Operation
Message-ID: <360BAE7E.DFB586E3@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Paul R. Valko wrote:

>
> This topic was debated (at length) in the past and it's NOT OPEN for
> discussion now. :-) I'm following Chuck's rules.

True story: a Hebrew student once complained to the teacher that he didn't understand why he had to follow certain grammatical rules when David Ben Gurion publically violated them all the time. "You're not Ben Gurion", said the teacher. You're not Chuck, Paul.

> When we say NO SPLIT what I'm saying is that the FOX is to stay on one
> frequency to transmit and must listen on that frequency +/- hunter CW note
> frequencies.
>
> It is fine for the Fox to use Receiver Incremental Tuning (RIT) to fine
> tune the hound signal.

Here's what I propose: Hounds are encouraged to spread out over a range of +/- 2 kHz (or whatever). Foxes will tune around in this area, but will not ask for calls up 5 or something. Please do NOT encourage foxes to listen on only one frequency or hounds to try to zero-beat the fox! There are going to be more hounds than ever this year, and it's always been the hardest to get through when everyone piles up on the same frequency. In fact, I would support a suggestion that the hounds to make an effort to NOT call exactly on the fox's frequency.

Vic, K2VC0
Fresno CA

Date: Fri, 25 Sep 1998 09:58:57 -0500
From: W5TB <w5tb@SoftHome.net>
To: qrp-1@Lehigh.EDU
Subject: [20945] Fwd: Brilliant Aurura Last Night...
Message-ID: <v04011702b2315f54fe44@[10.4.13.57]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

But has anyone seen the latest solar
>and geomagnetic forecast? Should I plan to shelve my
>HF gear yet, and invest in multi-mode VHF to do that
>bounce thing off the aurura?
>

Hi Dale Dale, yes, it's time to do the gardening or hit VHF

25 Sep N4TY-9 (11) SFI=135, A= 18, K= 7, Low,Qt-SevereStrm=)Low-Mod,Act-MajSt

25 Sep N4TY-9 (12) SFI=135, A= 18, K= 7, Low,Qt-SevereStrm=)Low-Mod,Act-MajSt

25 Sep N4TY-9 (09) SFI=135, A= 18, K= 9, VyLow,Qt-SevereStrm=)Low-Mod,Act-Maj

BTW - I link to <http://oh2aq.kolumbus.com/dxs/oldlook.html?> to get this info and a feel for how the bands are doing. The URL for my qrp/dx link page is below :)

73 T.E. 'Doc' Drake W5TB
w5tb@softhome.net <http://www.qsl.net/w5tb/>

Date: Fri, 25 Sep 1998 15:55:58 -0700
From: "Harvey D. D. Hetland" <n6mm@earthlink.net>
To: qrp-l@Lehigh.EDU
Subject: [20946] Re: FOX: Split Operation
Message-ID: <360C1F7E.41C4@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have greatly enjoyed fox hunting, because it emulated the DX pileups without the excessively aggressive operators and it provided a good training ground for the developing operator. I was disappointed that a decision was made to restrict operation to two days per week rather than four days, due to my being pretty much eliminated from participation by employment commitments on the selected evenings. Restrictions on moderate amounts of split operation is an attempt at excessive control of the activity rendering it unrepresentative of the real world and not in the spirit of QRP. With everyone on the same frequency it becomes a lower skill power struggle and there will too often be a strong beginner with long calls. Personally I will satisfy my thirst for QRP operating enjoyment with some of the many fine weekend activities, but I certainly do not discourage others from participation in the foxhunts.

73, Harvey, N6MM.

QRP ARCI #51, QRP-L #318

Date: Fri, 25 Sep 1998 09:04:29 -0700 (PDT)
From: KC5TJA <kc5tja@axisinternet.com>
To: Fran Flynn <fflynn@together.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20947] Re: PWM in AM
Message-ID: <Pine.LNX.3.96.980925090348.3509B-100000@axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 25 Sep 1998, Fran Flynn wrote:

> Sure, why not? I didn't think of that. It seems like the most obvious
> and simplest way to generate AM. I think that earlier devices didn't
> allow it, but now it's easy with mosfets. No big transformers, right?
>
> Maybe we can apply this to qrp somehow. (I had to insert something
> related to qrp)

How, exactly, would this work, though? PWM at RF, to me, would seem to
not offer very good linearity in the resulting signal...

```
=====
      KC5TJA/6      |                      -| TEAM DOLPHIN |-
      DM13          |                      Samuel A. Falvo II
      QRP-L #1447   |                      http://www.dolphin.openprojects.net
      Oceanside, CA |.....
```

Date: Fri, 25 Sep 1998 12:13:32 EDT
From: DYARNES@aol.com
To: qrp-l@lehigh.edu
Subject: [20948] Re: Radiokit Caveat Emptor
Message-ID: <9bc8f333.360bc12c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 9/25/98 5:17:39 AM US Mountain Standard Time,
jessqrp@concentric.net writes:

<< Does anybody else besides KM1H convert Heathkit SB-220s to 6M amps?

I sent Carl \$930 last May for a converted SB-220 which was supposed to

be
here by the VHF contest in July.

But despite repeated followups and promises he has still not followed through. >>

Didn't I see this guy's picture on the wall down at the post office?

W7AQK

Date: Fri, 25 Sep 1998 09:16:25 -0700
From: Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
To: brockwse@fssec.army.mil
Cc: qrp1 <qrp-1@lehigh.edu>
Subject: [20949] Re: ARRL HANDBOOK SIERRA
Message-ID: <360BC1D9.F90AF68A@email.mot.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Steve!

Yes, I have built several QRP rigs based on this design. Being homebrew, I made some minor changes, but basically the same design as in the handbook.

Changes? For example, it is very difficult to make multiband rig homebrew using the plug-ins as the standard Sierra does. Therefore, all of mine are mono-banders.

Secondly, since they are monobanders, I can get rid of the extra conversion step used in the VFO to mix it to the proper frequency for each band.

For example, for 40m, I simply use a 3 MHz VFO, and a 4 MHz IF. Works great. The 40m version is what I used for the fox hunt, in which I placed in the top 10 (7th? 8th?) in the last two years.

I also modified it for 5w. On 40m, I use an IRF510 Mosfet as they are very cheap.

I build all my rigs "dead bug" style using double sided PC board for both the box and the center shelf. Rx on the top side, Tx on

the bottom.

Caps? I pick up stuff at hamfests. By taping down the VFO coil, you can make most any variable tune just the right range. I also *love* those little glass piston trimmer caps for setting the frequency right on.

However, my newer rigs have used varicap diodes. The air variable caps take up way to much room.... espically when fully unmeshed.

If you don't already have one, a 'scope is very, very useful when homebrewing.

Great rig! Have fun!

- Dan Tayloe, N7VE, Phoenix, Az, Az ScQRPions

>I bought the 1997 ARRL RADIO handbook in 1997 because it had the
>info on the Sierra in it.

>Has anyone built the radio from the handbook and gotten it to work
>well? Where do I get the large tuning capacitor? Should I locate a >therapist?

>I do not want to build the radio to save money or cut Wilderness
>Radio out of a sale; I am learning and enjoying the experience.

>Steve Brockwell, KC5TTY, Elgin, OK 73538

Date: Fri, 25 Sep 1998 12:17:29 -0400
From: Ed Tanton <n4xy@att.net>
To: dbm@klis.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [20950] Re: STAMP
Message-ID: <3.0.5.32.19980925121729.00bc53a0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

> In answer to "What do you need, minimumally, to work with BASIC Stamps..."

Hi Dave... that was probably me... it might be a better idea to ask Parallax... but surely you would need a Stamp I or Stamp II-preferably-as a part of their "Starter Kit" (BS2: #27203 @\$149) as well as a couple of other things, like the LCD Module, the Real Time Clock (if it doesn't come with the Starter Kit) and maybe the Activity Board-which will give you real

Thanks for all the input on this subject. I was trying to construct a CW tone using LSB and I & Q 90 degree different audio. I just needed to apply some gentle filtering to put the composite I&Q back together again. Without the filtering, things looked a bit strange.

Presto! All of a sudden 1 KHz modulated LSB looks *exactly* like an ordinary, unmodulated, CW signal!

Wow! Somehow it never ceases to amaze me how theory can be actually made to work in real life!

- Dan Tayloe, N7VE, Phoenix, Az, QRPL # 696, Az ScQRPions

Date: Fri, 25 Sep 1998 10:44:32 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Dave Fifield <fifield@pacbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20952] Re: Norcal Zombies - Origin
Message-ID: <Pine.LNX.3.95.980925104304.24616G-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> strange how these things snowball eh? We have a lot to
> thank Roy for.....don't we? Do we?
>
> Dave Fifield, AD6AY
>
>
....yes, we certainly do....thank you Roy!...72 - Bruce(VE5RC+VE5QRP)
QRP-L#886 QRP-C#1

Date: Fri, 25 Sep 1998 09:48:39 -0700
From: k6hcj@juno.com (Marv Fagenson)
To: qrp-l@Lehigh.EDU
Cc: billm@wgn.net
Subject: [20953] CA QSO Party
Message-ID: <19980925.094840.6478.0.k6hcj@juno.com>

The San Fernando Valley Amateur Radio Club, W6SD, is participating on Sat. Oct 3 only beginning apx 8 A.M.local time. We will be QRP on 40m. Marv, K6VIV (QRP DXCC) will be the primary operator but several club members will participate. We will run an MFJ rig and the Rainbow tuner. Listen for us.

We also have a TS 850 running QRO, sorry!

If you want to visit and participate or "supervise" we are operating from an old Nike site in the Chatsworth hills in the valley(2500 ft elevation). Directions: Call me at 818-780-3999.

Marv Fagenson
k6hcj@Juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 25 Sep 1998 13:00:50 -0400
From: Erv <kb8tnq@voyager.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20954] Re: Radio Shack DX394 closeout
Message-ID: <360BCC42.4312826B@voyager.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well Gang:

I think I may have come through with THE best deal....no, not on the DX 394, but the DX 390. True, it may be the forerunner to the 394, but can anyone beat \$89.95 on a \$219.95 unit???

I went to my Radio Shack yesterday and was told the 394 was long gone, but that they were also closing out it's sister. Upon being told what the price was, I was informed that there were TWO in the entire region, both in Detroit. Mine will be here Monday.

Enjoy and 72/73,
Erv-W8ERV

I recall seeing KM1H as a poster on the boatanchor list recently. He's still around after having "left" this one.

Ed Tanton N4XY EMAIL: n4xy@att.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

INTERESTS: QRP BoatAnchors Test Equipment Photography
CW: 99.9% Mercury Paddle # 0214 QRP to 150W: 95%

~~~~~  
"Think you can, think you can't: either way you're right!" Henry Ford  
~~~~~

Date: Fri, 25 Sep 1998 11:39:44 -0600
From: "Conant, Paul" <paul.conant@lmco.com>
To: "'qrp-1@Lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [20957] Baby monitors on 6 meters
Message-ID: <C95C7DB8B9A8F01195C40000F81F32FD1EB66D@emss02m09.ems.lmco.com>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain

I am wondering if I am the only one who has considered modifying a nursery monitor for operation on 6 meters. I've had some of these things knocking around out in the garage ever since my teenager was a toddler. The Fisher-Price models we have operate on 49 MHz. The transmitters have crystals for each of two channels. Similarly, the receiver can be set for either of the two frequencies. Swapping out crystals and hooking up an antenna to these things would be a piece of cake.

Any thoughts?

Paul, WQ5X

Date: Fri, 25 Sep 1998 13:34:35 EDT
From: borealis@juno.com (Philip G. Collier)
To: qrp-1@Lehigh.EDU
Subject: [20958] Re: Brilliant Aurora Last Night...
Message-ID: <19980925.133754.3838.0.borealis@juno.com>

On Fri, 25 Sep 1998 06:52:41 -0700 (PDT) =?UNKNOWN-8BIT?Q?"KB=D8VCC"?=
<kb0vcc@rocketmail.com> writes:

>A quick scan of the bands before work today, found HF was
>in the practical sense, "dead",

Yessir, there's quite a lot of geomagnetic activity right now. I was

listening for the Hurricane Watch on 14325 and heard nothing, then went to 40 meters and still heard nothing. Though on 80 meters there were some fellows talking about poor band condx .

I missed the aurora here - what's your latitude? I'm hoping to see some tonight if things are still active up there. Paul Harden's message indicates poor propagation can be expected for a while this weekend.

Phil
KG2DH

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 25 Sep 1998 10:56:56 -0700
From: "Jim Knopf" <knopf@halcyon.com>
To: <qrp-1@Lehigh.EDU>
Subject: [20959] QRP+ and MFJ-285W speaker mike
Message-ID: <000901bde8ad\$e2c528c0\$292a3fce@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Got my "new" QRP+ today. Sure is a sweetheart, but I can't seem to use my MFJ-285W speaker mike with it. The QRP+ serial # is 1139. I bought the 285W speaker mike for it because I read here in some old list postings that the 285w was the one to use.

Sure hate to have to dig into the little speaker mike cable, but whenever the speaker mike is plugged in, the qrp+ stops being tuneable, and the audio output stops. Any ideas anybody? Please?

.....
-Jim, KI7Q
<mailto:knopf@halcyon.com>
Visit the "Father of Shareware" at
<http://www.halcyon.com/knopf/jim>

Date: Fri, 25 Sep 1998 10:25:56
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [20960] Re: I feel the need
Message-ID: <3.0.3.16.19980925102556.2b9f97b8@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>
>But now I feel the need to try my hand at building my own
>rig. I did some surfing around and found lots of articles, but
>I want your opinion. What should I build?

>73, Barry - KF6RDI

>
Boy, this is got to be one of the hardest questions to answer. It also seems to be one that's frequently asked. There are so many good kits out now days, from a number of different venders. Ask this question and one person will say, "I built xyz kit and loved it", another will say "I built abc kit and loved it", or "you can't go wrong with the Umpapa rig".

Has anyone done up a fairly complete list of all the different venders and thier products, all collected in one place with maybe a short description of what they do and how hard they are to build? If so, that's a URL that should be posted regularly here. If not, that's a great project for someone to do (not me, though)

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Fri, 25 Sep 1998 18:09:22 +0000 (GMT)
From: Edson Pereira <ewp@calypso.healthnet.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20961] Noise blanker
Message-ID: <Pine.LNX.3.96.980925180049.11723A-100000@calypso.healthnet.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello everyone,

I have a question concerning the noise blanker circuits in some rigs. I

have a ts-430s, a ts-450s, a ts-50, and a ts-820s. All these radios have NB circuits but the only effective NB for impulse noise (electrical pole type) is the one in the ts-820s. The ts-450s has two NBs, but both are not very effective. I suspect the problem is related to the bad front-ends in the newer radios.

Does anyone have any idea why the NB in the new radios are so ineffective?

Since I am building a QRP transceiver, I would like to include a NB with it, but would like to understand more about good (and bad) ways in implementing a NB.

Thanks in advance.

72,

Edson, N1VTN

Date: Fri, 25 Sep 1998 13:07:54 -0500
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
To: <paul.conant@lmco.com>, "'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>
Subject: [20962] RE: Baby monitors on 6 meters
Message-ID: <19980925180756081.AAA209@muenzlerk>

Would that be a "one way transmission?" Or could you consider it a "beacon?" Anyway I think it might be legal if you IDed every 10 minutes. ;)

Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Conant, Paul
> Sent: Friday, September 25, 1998 12:40 PM
> To: Low Power Amateur Radio Discussion
> Subject: Baby monitors on 6 meters
> Importance: High
>
>
> I am wondering if I am the only one who has considered
> modifying a nursery
> monitor for operation on 6 meters. I've had some of these

> things knocking
> around out in the garage ever since my teenager was a toddler. The
> Fisher-Price models we have operate on 49 MHz. The transmitters have
> crystals for each of two channels. Similarly, the receiver
> can be set for
> either of the two frequencies. Swapping out crystals and
> hooking up an
> antenna to these things would be a piece of cake.
>
> Any thoughts?
>
> Paul, WQ5X
>
>

Date: Fri, 25 Sep 1998 13:13:39 -0500
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
To: <borealis@juno.com>
Cc: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [20963] RE: Brilliant Aurora Last Night...
Message-ID: <19980925181339972.AAA351@muenzlerk>

I remember back in 1989 seeing the orange glow on
the horizon here in south Texas. Any chance it will
get this far south this time? (29.24N)

Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Philip G. Collier
> Sent: Friday, September 25, 1998 12:35 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Brilliant Aurora Last Night...
>
>
>
> On Fri, 25 Sep 1998 06:52:41 -0700 (PDT) =?UNKNOWN-8BIT?Q?"KB=D8VCC"?=
> <kb0vcc@rocketmail.com> writes:
>
> >A quick scan of the bands before work today, found HF was
> >in the practical sense, "dead",

>
> Yessir, there's quite a lot of geomagnetic activity right now. I was
> listening for the Hurricane Watch on 14325 and heard nothing,
> then went
> to 40 meters and still heard nothing. Though on 80 meters
> there were some
> fellows talking about poor band condx .
>
> I missed the aurora here - what's your latitude? I'm hoping
> to see some
> tonight if things are still active up there. Paul Harden's message
> indicates poor propagation can be expected for a while this weekend.
>
> Phil
> KG2DH
>
>
> -----
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at <http://www.juno.com>
> Or call Juno at (800) 654-JUNO [654-5866]
>
>

Date: Fri, 25 Sep 1998 13:19:50 -0500
From: ab5uacw@juno.com (Clifton W Sikes)
To: qrp-1@lehigh.edu
Subject: [20964] Fox: First out of the chute.....Wahoooooooo
Message-ID: <19980925.131952.6734.0.ab5uacw@juno.com>

I know it's early, but I'm pumped! It's hard to believe this will be my fourth year to participate in the " Hunt ". Three years as an avid hound, and now the Fox. My wife and I listen to the coyotes howl every night, so this Prairie Fox is ready to sing.

I have spent the past few nights scouting 40m, and it will be interesting. For those new hunters, you are in for a wild ride. We have digital signals, SSB ops, and the occasional malicious QRM. If you have been wanting to build your copying ability, this activity will make you a pro. If you have trouble with numbers, work the Fox Hunt and the QRP ARCI Fall contest. Everyone has a number, and you will get better.

Now, some tips for the new folks, and a gentle reminder to all of us.
Rule #1, from Paul, have fun. Listen! Figure out what is going on, before you throw in your call. If all you hear is the pileup, don't throw out your call just to be doing it. If you don't hear the Fox, he won't hear you. Send your call once, NOT 6,8, or 10 times.

Multiple calls will get you noticed alright, by your fellow hunters. We are all human, and can get carried away. Just use a little common sense, and show some courtesy. Heck, last year I reached for the memory keyer to send my call,

and hit the wrong button. I hit the one that sends my call twice, and in a panic, hit it a second time. That made four calls, and gave me a VERY red face. The hunt goes for two hours, and chances are you will get in the log. Even if you don't, the sun will still rise and you gave it your best.

I will be running the OHR 400 set at 5 watts, to either the Butternut Vertical or an inverted vee, and will try both antennas. Want to give everyone a fair shot. The 400 has a good RIT, and I'll be twisting it a lot. Look for me to QSY, when the pack gets ugly. Listen! I will tell you when a move is about to take place. The name of the game is fox HUNT, not terrorize the Fox, he he.

Thanks to Paul for taking on this effort. You ARE the boss, and what you say goes. Sorry I rambled, and will post a short reminder before the first hunt. Let's Rock and Roll, It's Fox Season!

72,

Clif AB5UA

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 25 Sep 1998 12:35:11 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@lehigh.edu>
Subject: [20965] Re: FOX: Re: Where's the Fox's???? (fwd)
Message-ID: <Pine.LNX.3.95.980925123401.3225B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

With Paul's urging to "grab the bull by the horns" I am THINKING of putting out a call for a Team Competition within the annual 40 mtr Fox Hunt which begins Oct.7 this year...having said that, I am trying to recall who looked after this last year but my memory banks seem frozen right now....whoever that station was, maybe he/she could send me some of the guidelines, rules for the Team Competition.....how many in a team?....scoring?....etc...OR I could make something up...oh,oh...that's scary...HI HI...appreciate any help...looks like there's 3/4 VE's interested in fielding a Canadian Team...anyone else interested?...72 - Bruce(VE5RC+VE5QRP)
QRP-L#886 QRP-C#1

On Fri, 25 Sep 1998, Paul R. Valko wrote:

> Bruce,
>
> You are welcome to post to QRP-L saying you are soliciting teams!!!
>
> Go for it!!!
>
> 73! =paul= W8KC
> Collector of Ten*Tecs and other fine plastics
>
> <<http://www.acs.oakland.edu/~prvalko>>
>
>
>
>

Date: Fri, 25 Sep 1998 12:39:15 -0600
From: "Conant, Paul" <paul.conant@lmco.com>
To: "'wb5rue@stic.net'" <wb5rue@stic.net>, "'qrp-1@Lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [20966] RE: Baby monitors on 6 meters
Message-ID: <C95C7DB8B9A8F01195C40000F81F32FD1EB66F@emss02m09.ems.lmco.com>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain

That would be "two-way" communications. Add a T/R switch to the mods needed to make a 6-meter FM QRP station from a Fisher-Price nursery monitor.

Paul, WQ5X

> -----
> From: Kevin Muenzler WB5RUE[SMTP:wb5rue@stic.net]
> Reply To: wb5rue@stic.net
> Sent: Friday, September 25, 1998 1:07 PM
> To: Low Power Amateur Radio Discussion
> Subject: RE: Baby monitors on 6 meters
>
> Would that be a "one way transmission?" Or could you
> consider it a "beacon?" Anyway I think it might be
> legal if you IDed every 10 minutes. ;)
>
> Kevin, WB5RUE
>
> > -----Original Message-----
> > From: owner-qrp-1@Lehigh.EDU
> > [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> > Conant, Paul
> > Sent: Friday, September 25, 1998 12:40 PM
> > To: Low Power Amateur Radio Discussion
> > Subject: Baby monitors on 6 meters
> > Importance: High
> >
> >
> > I am wondering if I am the only one who has considered
> > modifying a nursery
> > monitor for operation on 6 meters. I've had some of these
> > things knocking
> > around out in the garage ever since my teenager was a toddler. The
> > Fisher-Price models we have operate on 49 MHz. The transmitters have
> > crystals for each of two channels. Similarly, the receiver
> > can be set for
> > either of the two frequencies. Swapping out crystals and
> > hooking up an
> > antenna to these things would be a piece of cake.
> >
> > Any thoughts?
> >
> > Paul, WQ5X
> >
> >
>
>
>

Date: Fri, 25 Sep 1998 14:39:40 -0400

From: aa5yx@juno.com (John Harper AA5YX/2)
To: qrp-l@lehigh.edu
Subject: [20967] Re: New QRP Rigs
Message-ID: <19980925.144117.10630.0.aa5yx@juno.com>

On Thu, 24 Sep 1998 10:07:34 -0400 "Kevin F. Glynn" <kfglynn@prodigy.net> writes:

>and I told him a multi-band rig for 10M and 15M if possible easily,
>and a
>10M/15M SSB rig in the same class as the 20M and 40M SSB travel
>radios.
>
>Think a rig or rigs like those would sell like hotcakes.

I agree that a rig that will take advantage of the upcoming solar cycle would be a good idea.

Also, it seems that a lot of us take our rigs backpacking. After several camping excursions of my own, what I'd like to see in a 10/15m CW rig are small size, ruggedness, built-in keyer and a built-in SWR meter. I couldn't care less about having a tuner built into the rig. It's just one extra box to carry and as long as I have an SWR meter, I can easily add or subtract wire until I get an acceptable match to the antenna without having to lug an extra box into the woods.

I'll be building an SWR meter into my NC40A soon. It will then be The Ideal Rig for forty meters. And I noticed today that my check cleared for the NC20 - yeeeeehaaawwww!

John Harper AA5YX/2 (ex: KA5BBL, KI50W, VQ9BL)
TenTec Century 21, HW-9, NorCal 40A, OHR-100A/20m, SST-30
<http://home.att.net/~j.harper>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 25 Sep 1998 11:46:21 -0700
From: "Radman" <radman@best.com>
To: <n4xy@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [20968] Re: STAMP (URL correction)
Message-ID: <199809251842.LAA25175@proxy4.ba.best.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ed,

Nice post on the STAMP starter information :-) However, I believe you *meant* to list the Parallax URL as:
<http://www.parallaxinc.com/> "parallax.com" is a different outfit :-)

BTW, Parallax Inc has some interesting 303 MHz RF modules on their site (gotta keep this QRP-related) to allow your robots to stay in touch up to 250 feet apart. And, Parallax will be unveiling their new GROWBOT -- stackable rolling robot architecture -- at the COMDEX computer show in Las Vegas this fall. They say they'll offer all of their STAMP starter kits, PICs, Books, etc at *deep* discounts from the Parallax van (sort of like the "Icom Fun Mobile," I guess) at the Comdex show, as well.

I just called Parallax and the book & board bundle for \$59 (#27801) which consisted of a good book, a BASIC I stamp, and a programming cable is no longer being offered as a special. (dang!) ... but they'll still sell you the book and the starter for \$68 (minus the parallel cable). The book is: (#27951) "Programming/Customizing the BASIC Stamp Book" -- \$34.95. The toll-free number is: (888) 512-1024.

Also, there are some very basic STAMP projects on Radio Shack's site (Steve's workbench) at:
<http://www.radioshack.com/sw/swb/>

Again, thanks for your post...

72 - Conrad Weiss - NN6CW

Date: Fri, 25 Sep 1998 15:00:18 -0400
From: Chuck Leskie <cleskie@um-f1.umd.umich.edu>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [20969] Re: Baby Monitors
Message-ID: <360BE841.BCD01270@um-f1.umd.umich.edu>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

another option might be to pick up a 49mhz walkie talkie and refit it with 6 meter crystals. some of those 49mhz handis have five or six channels, and they already have a T/R switch. If it works, you could have a qrp rig for 6 meters pretty cheap. If you could drive it up to a watt or so you might even be able to put an amp on it.

Date: Fri, 25 Sep 1998 13:07:42 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu, homebrew@qth.net
Subject: [20970] SAMLEX Power Supply Mods
Message-ID: <3.0.3.32.19980925130742.00930b80@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have some mods that improve the performance of the SAMLEX model PSA-305 0-30V bench supply -- this is the one TechAmerica was selling for about \$100 this summer. If you bought one of these "gems" and would like a copy of my mods write-up, send me an email.

72, Larry W1HUE/7

Date: Fri, 25 Sep 98 15:06:19
From: "Caitlyn M. Martin" <cait.martin@ibm.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [20971] Re: New QRP Rigs
Message-ID: <199809251908.TAA179900@out2.ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

On Fri, 25 Sep 1998 14:39:40 -0400, John Harper AA5YX/2 wrote:
>>Think a rig or rigs like those would sell like hotcakes.
>
>I agree that a rig that will take advantage of the upcoming solar cycle
>would be a good idea.

>

>Also, it seems that a lot of us take our rigs backpacking.

It seems to me that Ten Tec missed the boat by discontinuing the Argo when they did. It was just perfect for those situations. 6 meters is also a wonderful choice at cycle peaks, and there is an MFJ rig for that, though it's gotten mixed reviews at best. I wish someone would import Tokyo Hy-Power's 6, 15, and 40 meter HT again. Think about how nice that would be for backpacking, and it's already type accepted. Or how about Mizuho's 10 meter or 15 meter SSB/CW HTs (sold here as DX Handy's a while back)?

I used to take a 10 watt (1 watt on low) NCG-15M hiking with me. I miss that 15 meter rig, and also the NCG 7/21/50 I used to have on the base. I never should have sold them, even though I have newer toys. Oh well...

-Caity
KU4QD

```
-----
Caitlyn M. Martin                "They have computers, and may have
cait.martin@ibm.net              other weapons of mass
http://www.angelfire.com/nc/caitm destruction"  -Janet Reno
-----
```

```
-----

Date: Fri, 25 Sep 1998 15:12:16 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Clifton W Sikes <ab5uacw@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20972] Fox: First out AB5UA...Wahooooooooo
Message-ID: <Pine.OSF.3.95.980925150507.21571A-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
```

Cliff that was an OUTSTANDING post. I can't thank you enough for getting the Foxhunt off to a great start.

All you hounds-to-be, Listen to his tips, they were excellent.

Foxii... that was a good example of the type of post you need to send to QRP-L prior to your operation. Give some guidelines as to your operation style and equipment! Make sure to give a starting frequency too!

GET FIRED UP, PEOPLE - RULE #1 *IS* HAVE FUN!!!

73! =paul= W8KC

Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Fri, 25 Sep 1998 15:00:26 -0400
From: bill marsh <k3as@delanet.com>
To: qrp-l@Lehigh.EDU
Subject: [20973] Delaware is still on QRP
Message-ID: <360BE849.A5003F57@delanet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I'm on the air practically every day, but usually on 40M. To give the west coasters a chance I'll be on 28.058 on Saturday Sept 26, from 1730 till 1830Z. Early next week I'll post a schedule for the weekend of Oct. 3/4 which will include more bands and longer operating times. If you have any suggestions as to what band I should be on at a time that will suit you, let me know by direct e-mail. By the way, I QSL 100 percent. Hope this helps, 72....Bill K3AS DE

Date: Fri, 25 Sep 1998 15:18:25 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: "brad.mugleston@gwl.com" <brad.mugleston@gwl.com>
Cc: QRP List <qrp-l@lehigh.edu>
Subject: [20974] FOX: Fake Fur!!!
Message-ID: <Pine.0SF.3.95.980925151340.21571B-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 25 Sep 1998, Brad Mugleston wrote:

> It seemed some people declared themselves to be a fox and start their
> own hunt - got a few people quite mixed up -I know I grabbed one and
> was going to sit back and listen then I compared my schedule with who I
> just worked and realized I worked an imitator.

Good Reminder Brad!

Gang, make sure you print off the sked and check for "slim."

Nobody but the Fox calls "CQ FOX"

There's only ONE OFFICIAL qrp-l foxhunt. Make sure you slide off frequency after working our bushy-tailed friend. And PLEASE don't QRM the foxii.

73! =paul= W8KC

Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Fri, 25 Sep 1998 20:10:58 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20975] On-Line MFJ product manuals HTML/PDF.
Message-ID: <360BF8D2.294B@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Happy Friday QRP Oficianados!

I've been searching the net for detailed product information on the Autek RF-1 antenna analyzer. Just about nothing found. Even a website with 'Autek' in the name appears unrelated...

But I did learn from historic posts discovered in my websearch that it is great to have the MFJ-259 Manual.

MFJ has a huge and commendable collection of product manuals. FREE for the download! Most have BOTH HTML and PDF formats.

I printed out the PDF manual for the MFJ-259 SWR analyzer.
Then I discovered minor differences in the HTML copy so now
have both.

HERE'S the URL for MFJ Manuals:

<http://www.mfjenterprises.com/manuals/>

One more thing: Anyone got a URL for the AUTEK RF-1 Manual?
Other info/specs on the RF-1?

Thanks. It looks like my HW-8/PS/Spker/Manual/compendium of
"CONTEST Machine" articles will soon be on its way for an RF-1
in New York.

P.S. I may be on Local UHF ch. 50 sports tonight! Interview
at 0000Z at my Horseshoe Pitching club. Maybe get in
a plug for QRP CW!!!

--

72, Ed WE6W (CW only/VP-0); <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 QRP-L#1068 AR#112 NC#2227 ARCI#9397 QAA#006

Date: Fri, 25 Sep 1998 16:03:00 -0500
From: "Jeff M. Gold" <JGold@tntech.edu>
To: QRP-L #98 <qrp-l@Lehigh.EDU>
Subject: [20976] Kenwood 570D - sell or trade
Message-ID: <000301bde8c7\$e1331840\$4d0b9595@Jeffro.cc.tntech.edu>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I have a mint Knwd 570D. Easily turns down to QRP. Works great QRP SSB or
CW. Has CW filter. Will sell or looking for Yaesu 920, 990, or maybe Ten Tec
Corsair II.

72
Jeff, AC4HF

Date: 25 Sep 1998 17:15:08 -0400
From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>

To: qrp-1;;
Subject: [20977] Why are active mixers so noisy?
Message-ID: <1998Sep25.171508-0400@[130.113.234.7]>

OK, its Friday, I admit my thoughts are wandering...
Seems that passive mixers (ie:diode rings) have a
noise figure very close to their inherent loss.
That makes them almost noise-free.

But take something with gain, like a FET
and make a mixer out of it. Published noise figures
seem to be HIGHER than the same device
used as a simple amplifier. Was looking at an Ed
Oxner FET balanced mixer with a 9dB noise figure.
And seems to me the Plessy 6440 noise figure wasn't
great either.

I understand that active mixer may be roughly
one-quarter that of a similar amplifier. Does that
alone account for the lousy noise figure? Or do
mixer designers optimize out distortion products
first, and then optimize gain, and then put up with
the resulting poor noise?

Glen VE3DNL leinwebe@mcmaster.ca

Date: Fri, 25 Sep 1998 17:10:58 -0400
From: n2tpa@juno.com (Bill d Lazure)
To: QRP-L@lehigh.edu
Subject: [20978] How to safely sell Equipment
Message-ID: <19980925.171101.8118.2.N2TPA@juno.com>

Gang,

Soon, I may have some equipment for sale. I've never sold thru the
mail before, and was wondering the best way to do it so that I can be
assured of payment, and the buyer can be assured of getting what he/she
expects. Is 50% up front, 50% on delivery normal? I will be VERY honest
about faults when I post the FS notice, but don't want to pay two-way
postage because someone's expectations were too high.

Also, how is postage normally done? Damage in transit?

Anything you could tell me would be appreciated.

73,

Bill
N2TPA

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 25 Sep 1998 21:48:50 GMT
From: nhoop@centuryinter.net (N H)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [20979] Re: I feel the need
Message-ID: <36120dac.23682172@mail.ot.centuryinter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>Has anyone done up a fairly complete list of all the different venders and
>thier products, all collected in one place with maybe a short description
>of what they do and how hard they are to build?

Isn't that the key to a more concise answer? Some kits spell everything out, like Heathkit used to. I was no Rocket engineer, but Heathkit made kit-building easy. Then there are kits that take considerable expertise. Ease of tuning and testing would count here too, along with test equipment requirements.

72 KM5QU nat
Oxford, Arkansas

Date: Fri, 25 Sep 1998 15:09:50 -0800
From: John Rollins <rexstout@uswest.net>
To: qrp-l@Lehigh.EDU
Subject: [20980] Re: Baby Monitors
Message-ID: <l03130303b231d1eb23a2@[207.225.87.84]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>another option might be to pick up a 49mhz walkie talkie and

>refit it with 6 meter crystals. some of those 49mhz handis
>have five or six channels, and they already have a T/R switch.
>If it works, you could have a qrp rig for 6 meters pretty cheap.
>If you could drive it up to a watt or so you might even
>be able to put an amp on it.

I was thinking about this a while back, with a SpacePatrol radio. I don't think they carry that specific radio now, but I can't imagine that any other 49MHz radio would be much different. I was just going to swap the crystal and maybe replace/add the amp transistor(if it even has one) and get it up in power even a little bit. Any ideas on how much power they put out normally?

I like the idea of using a baby monitor as a beacon. Hookup a digital voice recorder or CW ID'er instead of the microphone? Or wire up the complete set and you have a small repeater...

```
-----  
| http://members.tripod.com/~jrollins/index.html - Computers |  
| http://www.geocities.com/Area51/Lair/1681/ - Star Trek      |  
| orham@qth.net    list admin                                KD7BCY |  
| ham-mac@qth.net                                     Portland, OR  |  
-----
```

```
-----  
  
Date: Fri, 25 Sep 1998 16:00:28 -0700  
From: "Jim Knopf" <knopf@halcyon.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [20981] Tick inside an SST  
Message-ID: <000e01bde8d8$4a0d2f80$292a3fce@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
            charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit
```

Has anyone here put a Tick keyer inside an SST?

If so, what values did you use for R2 and R3, which Embedded Research says are "rig dependent."
Any problems with using the default resistors supplied, which are for the Norcal-40A.

.....
-Jim, KI7Q

mailto:knopf@halcyon.com
Visit the "Father of Shareware" at
<http://www.halcyon.com/knopf/jim>

End of QRP-L Digest 1225
